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1903



Second Annual Catalogue

OF

RELIABLE SEEDS

FROM

HAWKEYE
101
SEED COMPANY

DES MOINES, IOWA

Store, 208-210 Seventh St. Seed Farms, Berwick, Iowa

SUCCESSORS TO
LIVINGSTON'S SEED STORE

Instructions to Customers and Correspondents

Order Early—This is more advantageous to us and our customers, but we are prepared to give your orders prompt attention whenever received.

Please use Order Blank whenever convenient.

Give Name, Postoffice and State every time you write to us.

Remit Money by postoffice money order, express money order or bank draft. If these are not convenient send registered letter. Postage stamps received as cash.

Discounts—We pay cost of remitting by allowing party sending cash with order for garden and flower seeds to amount of one dollar or more to select free additional seeds to amount of ten per cent of the order at prices quoted in this catalogue.

No Charge for Packing or delivering to freight depots or express offices in Des Moines, Iowa.

Charges Prepaid—All vegetable and flower seeds, bulbs and plants except those noted are sent prepaid by mail or express by the best route, unless otherwise ordered, and we guarantee their safe arrival.

No Goods C. O. D. unless one-half the amount accompanies order, unless by previous agreement.

Errors—We use the greatest care to prevent mistakes, but when they occur will make satisfactory correction. Please keep correct copy of your order for comparison.

Large and Small Orders are alike given careful and prompt attention.

Market Gardeners and others using large quantities of seed will please write for market gardeners' wholesale price list.

Shipping Facilities—Des Moines, being one of the largest railroad centers in the United States, has every facility for prompt and direct shipment in any direction by freight, express or mail.

Questions—Parties desiring to ask us for information pertaining to our business are invited to do so. We will endeavor to reply at consistent length.

Non-Guaranty—As responsible seedsmen we use every effort to send out tested seeds—sure to germinate and true to type—and should any seed prove generally defective will make such reparation as we consider just, in common with other seedsmen. While we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, expressed or implied. If the purchaser does not accept the seeds on these terms and conditions, they must be returned at once and the money paid for same will be refunded.

Address all letters and make all orders payable to

HAWKEYE SEED CO.

SUCCESSORS TO
LIVINGSTON'S SEED STORE

208 AND 210 SEVENTH ST.
DES MOINES, IOWA

~~SEE FULL INSTRUCTIONS ABOUT ORDERING ON OPPOSITE PAGE~~

**Order Sheet for RELIABLE SEEDS
FROM
HAWKEYE SEED CO., Des Moines, Iowa**

BE SURE TO FILL IN THESE BLANKS

Name.

Post Office.

County

State.

Express or Freight Office.

Date

Do you grow Vegetables to sell?

POSTAGE

Our prices on
packets, ounces,
pounds, pints, and
quarts are postpaid.

If to go at
buyer's expense,
deduct
10cts. per lb. or
15cts. per quart.

120

*Keep Order distinct from Letter, using only
one line for each item.*

SPECIAL NOTICE—Send us below the names and addresses of any Market Gardeners or Truckers you know. We would like to send them our Catalogue. We will include extra seeds in your order to pay you for your trouble.

NAMES	POSTOFFICE	STATE
.....
.....

A Happy and Prosperous New Year to Friends and Customers!

Thanks. We desire to thank those who have favored us with their orders the past season, and hope for their continued patronage. It has always been our earnest desire to merit the same.

To new customers we desire to say we do not wish to be understood as competing in price with much that is being offered in seeds at the present time, as a little difference in the price of a bushel or a pound of seed does not cut any figure when the results from planting bad seeds are considered. We are perfectly willing, however, to have our stock placed in competition with those of any other firm, knowing they will stand the test.

Since issuing our last catalogue we have moved to our new location, Nos. 208-210, West Seventh Street, where we will be pleased to meet old and new customers. Again thanking you for past favors and soliciting a continuance of your patronage, we remain,

Yours truly,

C. B. BURKART, Pres.
B. H. PATTERSON, Treas.

HAWKEYE SEED CO.

Our Aim! Reliable Seeds at Fair Prices.

A Catalogue which gives enough varieties to suit the varying conditions of soil, season and customers' tastes, but does not confuse the endless varieties which differ only in the eyes of an expert. In the following pages we have endeavored to offer the most standard old, and some new varieties, which have shown themselves to be of some merit. These we think will cover the wants of the market gardener as well as for home use.

New Varieties. We do not list them out of alphabetical order. They are few in number but well recommended. Try them in a moderate way and you will gain experience.

Our Experience. No one can be a reliable seed man who cannot give intelligent, or who will not give honest, advice to the customer who asks it. We will give our customers any reasonable amount of time to answer inquiries in person or by mail.

A Seed Store. We aim to allow no side line to divert us from our main business. Garden tools, poultry supplies, etc., are closely related and fit into our business.

Personal Attention. By concentrating our business we are enabled to give the details an amount of personal care impossible where widely different departments are carried on.

Prices. Our prices are based on the value of good seeds. We try to see how good and not how cheap seeds we can give for the money. We give each customer the lowest price and a *discount which applies to all seeds purchased at postpaid prices.*

Garden Seeds. We aim to recommend what the experience of others and ourselves is desirable in old and new varieties. Growers of vegetables have a valuable lesson to learn in selecting varieties which, planted at one time, give a supply in succession. We try to list as near as possible in order of earliness.

Flower Seeds. We all like flowers. We offer you a moderate list of time-tried favorites and well recommended candidates for public favor.

Farm Seeds. We have no apology to offer when we claim to be able to intelligently and honestly offer a list of farm seeds, and recommend varieties for different soils, latitudes, etc., with a knowledge based on practice.

Fruit Plants. We offer you a select list of fruit plants.

Garden Tools. Up-to-date machinery means everything. Buy tools adapted to your work. We offer you that selection in horse and hand tools.

Fertilizers, Insecticides, Spray Pumps, Traps, Fruit Baskets, Fruit Boxes, and miscellaneous items whose price and quality are important to the gardener and fruit grower, we are prepared to supply.

HAWKEYE SEED CO.,

208-210 SEVENTH STREET
DES MOINES, IOWA

VEGETABLE LIST

So far as possible, in order of earliness

packets, ounces, quarter pounds, half pounds, pounds, half pints, pints and quarts postpaid.

Discounts on Garden and Flower Seeds quoted in this Catalogue:

Customers sending \$1.00 may order to amount of	\$1.10
Customers sending \$2.00 may order to amount of	2.20
Customers sending \$3.00 may order to amount of	3.30
Customers sending \$4.00 may order to amount of	4.40
Customers sending \$5.00 may order to amount of	5.50

Gardeners and parties using large amounts write for Gardeners' Wholesale Price List

ASPARAGUS

Sow one ounce to fifty feet of drill

Sow the seed late in the fall or very early in spring as soon as ground can be worked, in drills, one foot apart one inch deep. Firm the soil over seed. It requires moisture. Some soak over night before planting. Keep free from weeds, especially when young. Thin to three inches in row. Time and labor is saved by planting the roots. At prices quoted buyer pays express or freight.

	ROOTS	SEED				
	Per 100	Per 1000	Pkt.	Oz.	1/4lb.	Lb.
Palmetto. Uniformly large and early; two-year-old roots.....	75	5.50	3	7	15	50
Conover's Colossal. Very productive; two-year-old roots	60	5.00	3	7	12	45
Columbian Mammoth White. This variety sends up sprouts that are white instead of purple or green like the old sorts, and they remain white as long as fit for use, and of large size	75	6.00	3	7	20	60
Asparagus Culture. A book giving best methods; price, postpaid, 50c.						

BORECOLE OR KALE

One ounce to 2000 plants

	Pkt.	Oz.	1/4lb.	Lb.
Siberian or Dwarf German. Very hardy. Sow in September and cover over with mulch as severe weather sets in. It is ready very early in spring.....	5	10	30	1.00

BOOKS

We wish to say a word in general about the value of the books we list. They contain the principles and details of subjects which few persons can afford to learn by experience. We want you to succeed for our mutual advantage. By special arrangement we offer two standard books on gardening:

Henderson's Gardening for Profit. The standard work on market gardening, \$1.25, postpaid.

Vegetable Gardening. By Prof. Green. Brimfull of practical information, \$1.15, postpaid.

BEANS BUSH

One quart to 100 feet of drill; two bushels to an acre.

YELLOW PODDED

	Postpaid		
	Pkt.	Pt.	Qt.
German Black Wax. Pods round, fleshy, medium length and thickness. Very early. Extra fine flavor; the first early yellow podded but for later use the pods are not as large as later varieties; one of the best for home gardens but not productive enough to sell on a full market. Raise it for your own use.....	3	25	45
Golden Wax. Known by everyone. A main cropper, producing plenty of long, round tender pods	3	25	45
Golden Wax, Rust Proof. Much like the preceding variety, only bred to resist as far as possible the bean's worst enemy—rust.....	3	25	45
Kidney Wax, Wardwell's. Prolific. Beans long flat, broad; waxy pods. Its heavy yield supplies a plenty for the home table or fills the market basket when bushels are wanted....	3	25	45
White Wax. Has a light yellow pod and white beans	3	25	45
Yosemite, Mammoth. Just what its name would imply. It gives a generous return of very large, golden yellow, luscious pods.....	3	40	65

GREEN PODDED

	Postpaid	Pkt.	Pt.	Qt.
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Early Mohawk. Flat pod, fair quality. Early because can be planted in colder ground than other sorts.....	3	25	40	
Stringless Green Pod. New; early, with long, round, thick meated pods which are exceptionally stringless. Worthy of thorough trial	3	25	40	
Valentine. A stand by; early, pods long, round, thick fleshed and numerous. Yields well, sells well because well flavored.....	3	25	40	

BUSH LIMA

One quart to fifty hills, two feet apart.

Henderson's Bush Lima. The early variety. Beans numerous, fair sized pods. Certainty, quantity, good quality give it a deserved popularity.....	3	25	50	
Dreer's Bush Lima. Pods medium size, fine quality, easily shelled.....	3	30	50	
Burpee's Bush Lima. Very large beans. Extra fine flavor, handy to shell, forms a large bush. Keep hills two and one-half feet apart.....	3	25	50	

POLE LIMA

One quart to fifty hills. Hills two feet, rows three feet apart.

Dreer's. Medium sized pods. Early; productive; true Lima flavor. The Pole Lima for short seasons Large Lima. Large pods, large beans. The variety to grow where seasons and locality are favorable to Lima Bean growing.....	3	25	50	
	3	25	45	

BUSH BEANS THAT SHELL

One quart to fifty hills, in rows three feet apart.

Dwarf Horticultural or Speckled Cranberry. This is a bean which needs more attention. It yields medium sized pods with quite large beans. Both bean and pod become splashed with red toward maturity. As soon as beans will shell, which is when pod is quite green, they furnish one of the ingredients of the toothsome succotash	3	25	40	
White Navy or Pea Bean. This bean is well known to all.....	3	20	35	
White Kidney. Used like the navy but larger.....	3	20	35	
Soja or American Coffee Berry. Sometimes roasted and used as coffee. Growing in favor as a forage and fertilizer crop. Write for prices where large quantities are wanted.....	3	20	35	

POLE BEANS—SHELL

Quart to fifty hills.

Cut Short or Corn Hill. Do well in corn, especially where not too crowded.....	3	25	50	
Dutch Case Knife. Large white beans. Cook as soon as shell. Grows well in corn; better on poles	3	25	45	

POLE BEANS—SNAP PODDED

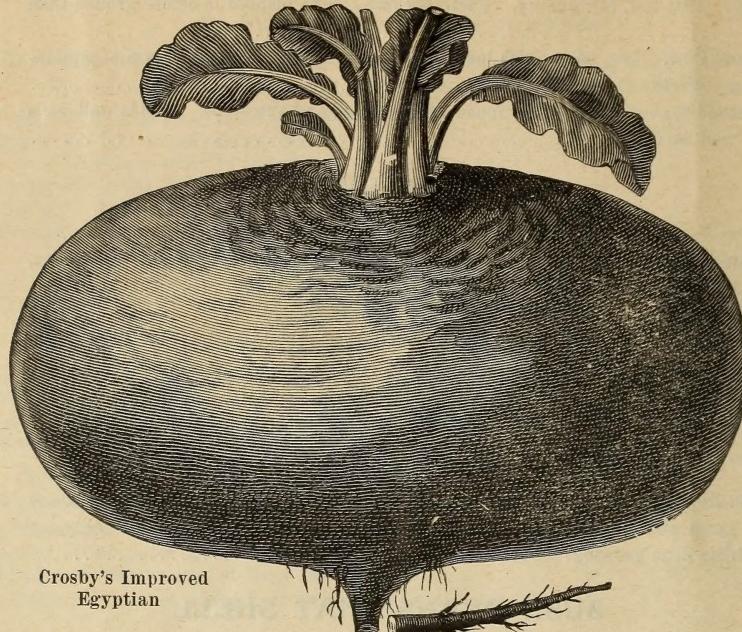
Quart to fifty hills.

Lazy Wife's. Pods six to eight inches long, stringless and tender. Young beans white and good when ripe	3	25	50	
Kentucky Wonder or Old Homestead. New. Very productive. Long green pods. Best used for snaps.....	3	30	50	

BEAN CULTURE

Beans require to grow well what would be called good corn weather. The condition suitable to corn must exist in soil and weather for success. We have named the varieties as near as possible in order of earliness of the classes. A continuous supply can be had by planting the hardiest, therefore earlier varieties first, and follow at intervals of two to four weeks with the others up to the first of July. We advise planting in hills twelve to fifteen inches apart. This leaves room for hoe blade and will prove worth knowing. Have rows two and a half to three feet apart for horse cultivation.

TABLE BEETS



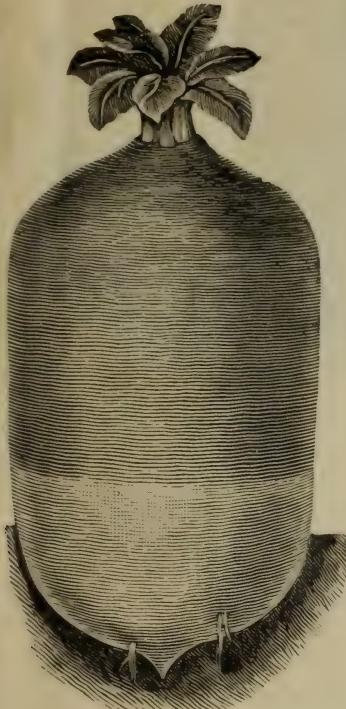
One ounce to fifty feet of drill; five to six pounds to the acre.

	Pkt.	Oz.	Postpaid 1/4 lb	Lb.
Crosby's Improved Egyptian. This variety stands at the front when all the points of an early beet are counted. Its rapid growth when young, small tops, deep red color and quality are unequalled	3	7	20	65
Early Eclipse. Turnip shaped, deep red. A few days later than Crosby's Egyptian. Its fine shape, smooth skin and table qualities count.....	3	7	15	50
Edmands. Turnip shaped, color extra dark red, uniformly good shaped, flesh crisp and sweet, a good early variety.....	3	7	15	50
Market Garden. Nearly turnip shaped but somewhat longer than wide. Color red and remains so when cooked. When the market and taste demand size, appearance and quality it rewards its grower.....	3	7	20	60
Dewing's Improved Blood Turnip. Its name describes it. The standard variety for late summer, fall and winter keeping crops. It has the qualities to meet these requirements	3	7	20	60
Half Long Blood. A fine beet half way between the slow growing long and quick maturing turnip shaped varieties. If some of these are sown when an early variety is, they keep up a supply of tender beets without the trouble of repeated sowings	3	7	15	50
Detroit Dark Red. This is a turnip-shaped, deep red, early maturing beet, the flesh is a bright red, very sweet and crisp. It is one of the best table beets. We recommend it both for home and market gardening.....	3	10	25	75
Sugar Beet. Very sweet; preferred by some for the table, also used to advantage as a stock beet	3	5	15	40
Swiss Chard, Silver or Sea Kale. Grown entirely for greens, and the mid rib of the leaves is used like celery	3	10	20	

BEET CULTURE.

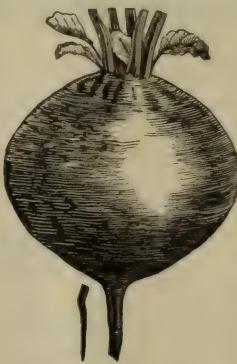
Sow as early in the spring as the ground can be worked. Sown then they have the moisture necessary to insure germination. They grow in cool weather and thus start before the weeds, and so require but little hand weeding. Sow in drills one to two inches deep, depending on time of sowing. Have the rows sixteen inches apart. Sowings may be made every two weeks as late as middle of June. If soil is dry firm it over the drills, as beet seed often fails to germinate for want of moisture. During hot rainy weather beet seed will rot. Please remember these points when you have a poor stand.

Mangel Wurzels or Stock Beets

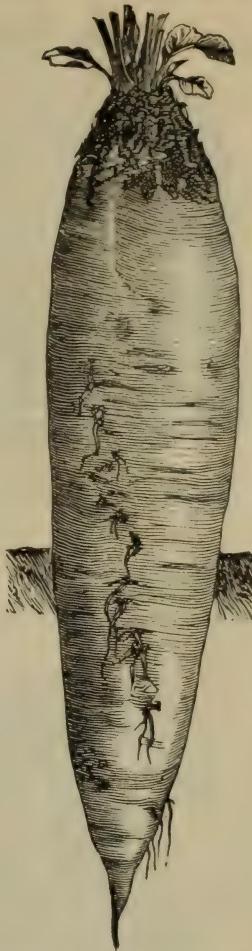


Golden Tankard

Giant Long Red,
called Norbeton
Giant or Jumbo,
the largest
Mangel grown.



Yellow Globe



One ounce to fifty feet of drill; five or six pounds to an acre.

Giant Long Red. Is the king of the Mangels. Growing one-half above ground it reaches an immense size when conditions allow, producing twenty-five tons or more per acre. Fed to cows in winter it produces an increased flow of milk, resembling in color and quality that from grass in June. Dairymen are learning its value.

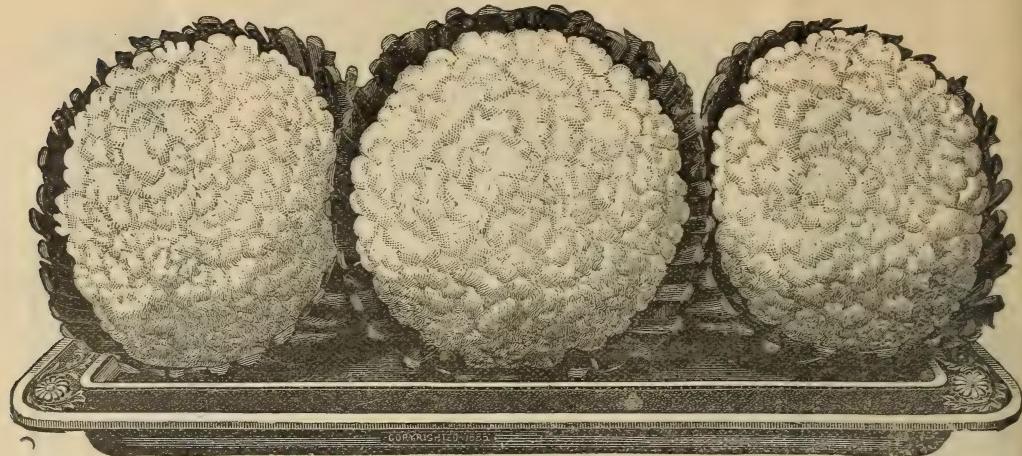
Golden Tankard. Shaped like cut. Easily harvested as it grows out of the ground. Yellow fleshed. Good yielder, having less water and more sugar than some others. Increases flow of milk and imparts its color to it. If you have not before, begin now to grow stock beets. Dairymen and stockmen at the head of the procession are raising more every year. We have raised them for years and always this variety for part of the crop.

Yellow Globe. Is the variety for thin soils. Easily harvested. With reasonable conditions it will repay for labor and room.

Price of any variety. Oz., 5c; $\frac{1}{4}$ lb., 10c; lb., 35c; five lbs., not postpaid, \$1.00.

Culture. The direction for Beets on preceding page apply. Our experience favor rows sixteen inches apart and depending on hand and wheel hoe cultivation. Planted early they soon shade the ground so completely that weeds cannot grow and the shade retains the moisture. When they are size of lead pencil thin to six and eight inches in the row, using the surplus to fill vacancies. Ground should be plowed in lands two rods wide, preferably in the fall.

CAULIFLOWER



Cabbage, Cauliflower and Allied Vegetables—How to Grow Them, Postpaid, 50c.

One ounce about 1500 plants.

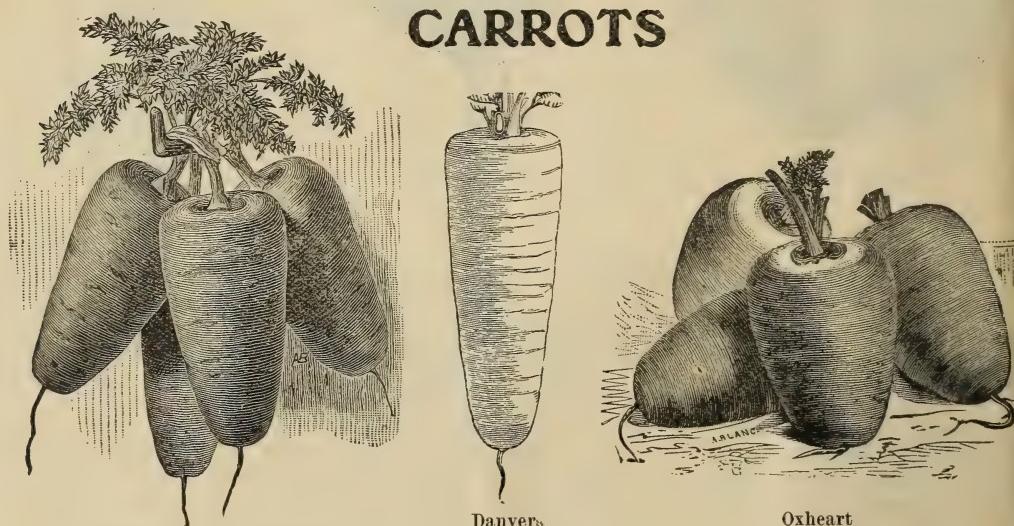
Postpaid
Pkt. $\frac{1}{4}$ oz. Oz.

Early Snowball. The standard variety. Very early and reliable.....

20 60 2.00

We think we make no mistake when we limit our list to one variety. We can recommend this one for late planting as well as early. It is the standard of all, and under favorable conditions produces very fine heads.

CARROTS



Chantenay Half Long Scarlet

Danver

Oxheart

One ounce to 150 feet of drill; four pounds to an acre.

Be sure to raise some carrots for your horses and cattle.

	Pkt.	Postpaid	Oz.	$\frac{1}{4}$ lb.	Lb.
Early Scarlet Horn. Small early variety, used for flavoring.....	3	10	20	60	
Chantenay. Stump rooted; uniformly smooth; deep orange color; medium early.....	3	10	20	65	
Danver. Medium length. Sweet and tender. Good table variety.....	3	10	20	65	
Oxheart. Big yielder. Best for main crop. Good quality. Best for feeding stock. Being short are easily harvested.....	3	10	20	65	
Five pounds, not postpaid, \$2.50.					

SWEET CORN

One quart plants 200 to 300 hills; eight to ten quarts for an acre.

• LIVINGSTON'S EVERGREEN •



Colt's Seed Co.

Quart and Pint prices on Corn include postage: if to go by express, at buyer's expense deduct at the rate of 10c per quart. Half-pint package is right size for small families. They are supplied at pint rates.

	Pkt.	Postpaid Pt.	Qt.
Daybreak. New. Known to be one of the earliest sweet corn grown.....	3	25	45
Extra Early Cory. The standard first early variety.....	3	20	35
Early White Cory. Almost as early as Extra Early Cory and has a white cob.....	3	20	35
Early Champion. Very early, good sized ears, yet almost as early as any variety. Is a fine market garden corn, being large and early	3	20	35
Early Minnesota. A fine second early variety of an extra good quality.....	3	20	35
Early Crosby. A second early of unsurpassed quality for home or market.....	3	20	35
Country Gentleman or Shoe Peg. A second early with deep grains irregularly arranged on cob. Popular when known.....	3	20	35
Egyptian. A fair sized, extra quality, fine appearing main cropper.....	3	20	35
Hickox. Large sized, good quality. A week earlier than Stowell.....	3	20	35
Livingston's Evergreen. Medium sized Evergreen, long slender ear; highest quality; just earlier than Stowell	3	20	35
Stowell's Evergreen. Well known; largest sized; main crop. Retaining the Evergreen quality. Keeps in fine table use for some time	3	20	35

CELERY

One ounce for 2000 plants.

CELERY CULTURE

The non-professional grower should buy for early crop, plants started in hot beds in March. For late fall and winter crops plants can be had from seed sown in April. Sow the seed shallow, barely covering, in a bed made very fine. Keep surface of bed continually moist, covering with coarse cloth or lath screen and frequent waterings. Transplant when plants are size of straw to two inches apart. Transplant to field from June 1st to middle of July. Plants should be shaded for few days if weather is clear. Draw earth around them to cause stalks to grow upright. Blanching for winter use is best done in cellar or cave.

Read Celery for Profit, 20c. postpaid.

Pkt. Oz. $\frac{1}{2}$ lb

White Plume. The standard sort. Nothing succeeds better.....	3	20	60
Golden Heart, Early, small size, fine nutty flavor. Its height makes it desirable to grower on limited room	3	15	40



White Plume

	Pkt.	Oz.	1/4lb.
Golden Rose. Stocky growth; smooth, solid and crisp. Good appearance, fine flavor. Put away in fall and blanched for winter use	3	35	1.15
Golden Self Blanching. By its manner of growth it requires slight banking up to put in fine condition. The variety for fall and early winter.....	3	30	1.00

CELERIAC—Turnip Rooted Celery

A Celery in which the root is used instead of the stalks. Nice for flavoring.	3	20
Giant Prages. Apple shaped	3	20
Celery Plants. Ready about May. Ask for prices.		

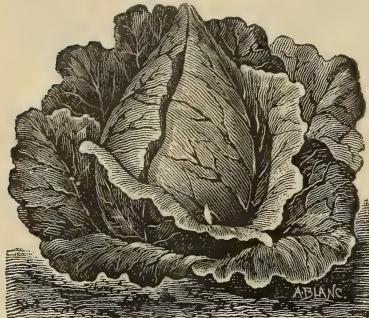
RELIABLE CABBAGE SEED

One ounce produces about 1500 plants.

Cabbage, Cauliflower and Allied Vegetables—

How to Grow. Full details. By Allen.

Postpaid 50c.



Early Jersey Wakefield



Henderson's Summer

A carefully selected list that will enable the intelligent grower to meet the demand for fall, summer and winter cabbage. We have aimed to avoid duplication and list distinct varieties, not mere strains.

	Postpaid	Pkt.	Oz.	1/4lb.	Lb.
Early Jersey Wakefield. The best of early varieties. Fine hard heads. Can be planted closely.....	3	25	75	2.50	
Henderson's Summer. A second early variety, the earliest of the flat headed sorts	3	20	60	2.00	
All Seasons or Vandergaw. Medium early. Good quality. Does well any part of the season. Can be planted when too late for other varieties.....	3	20	60	2.00	
Surehead. A very reliable header. Large flattened heads. Good keeper and shipper. Exceedingly popular	3	20	60	2.00	
Premium Flat Dutch. Best selected stock. Best variety for late and winter crop	3	20	50	1.75	
Short Stem Drumhead. The largest late variety. Heavy yielder.....	3	20	50	1.75	
Drumhead Savoy. A peculiarly curled leaf variety of the drumhead type.....	3	20	60	2.00	
Holland or Danish Ballhead. Very hard head, long keeper, good for spring sales. Plant ten days earlier than other late varieties.....	3	25	75	2.50	
Mammoth Red Rock. Deep red color. Largest and surest red heading variety ever introduced. Very solid	3	25	75		

CRESS

One ounce to twenty-five feet of drill.

Sow thickly; cover lightly. Requires frequent sowings to have continuous supply. Does best in cool weather.

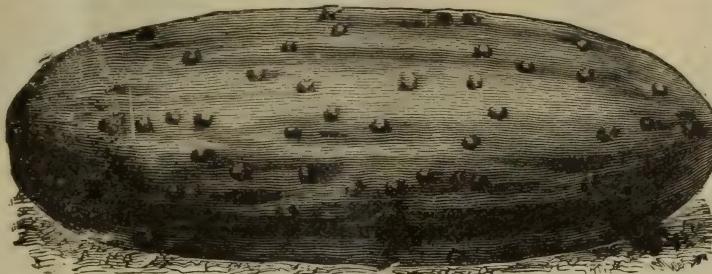
Curled Garden Cress. Very good.....	3	7	15	50
Water Cress. Will thrive along edges of shallow water.....	3			

CUCUMBERS

One ounce to fifty hills; two pounds for an acre.

Slug Shot is the best remedy for bugs; five pounds 30c, not postpaid.

A
SELECT
LIST



Plant from
time corn
sprouts
well
to July 1st.

White Spine

Early Green Cluster. A short, prickly, early variety bearing in clusters near the root.

Color pale green. Early maturity and prolificness are its best points.....

Pkt.	Postpaid Oz.	1/4lb.	Lb.
------	-----------------	--------	-----

3 15 50 1.60

Forcing White Spine. Desirable as an early variety for home or market. Fruit sets near the roots of the vines. Color dark green

3 15 50 1.60

Improved White Spine. The best variety for all purposes and for this reason has great popularity. Good bearer; beautiful green at pickling stage; fine for slicing; good shape; the pickle variety.....

3 15 50 2.00

Long Green. The young fruits are of the finest shape and quality for pickles; is very long and of a dark color. Later are excellent for slicing. When ripe are good for preserving

3 15 50 2.00

Emerald. Its evergreen quality retains that rich, dark green color so desirable. Very prolific, with smooth spineless skin. Its color, size and handsome shape makes it in demand for pickles. Does well under glass and ships well.....

3 20 60 2.00

Chicago Pickle. A prolific dark green, very popular for pickles

3 15 50 1.60

Small Gherkins (Burr Cucumber). Produces bottling pickles. Small and shaped like a chestnut burr. Good quality.....

3 15

Serpent or Snake Cucumber. An interesting curiosity. The cucumbers grow coiled like a snake. They are of fair quality and sometimes several feet in length.....

3 15

ENDIVE---Winter Lettuce

One ounce to 150 feet of drill.

Green Curled. The hardiest variety. Has handsomely curled green leaves which blanch white, crisp and tender.....

3 15 40 1.40

Broad Leaved Batavian. Forms large heads of thick, broad leaves. Preferred for flavoring soups. When blanched is excellent in salads

3 15 40 1.25

EGG PLANT

One ounce makes 1,000 plants.



Large Thornless Purple. The standard market and home table strain. Plant is strong and vigorous, fruit handsome and fine quality.....

Pkt. $\frac{1}{4}$ oz. Oz.

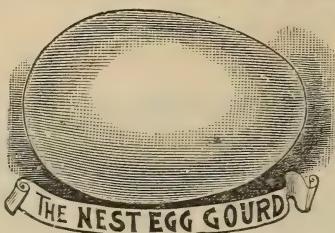
3 20 35

Pearl White. Resembles the preceding in everything but color. A creamy white with shade of green around the stem

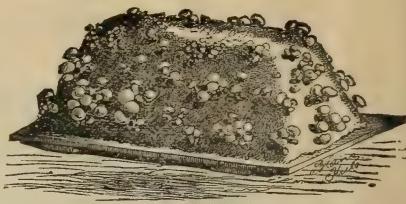
3



Kohl Rabi



THE NEST EGG GOURD



Mushrooms

Pkt. Oz.

Dipper.	Can be used for dippers. Grown on trellis their weight causes them to grow straight. Very handy, easily prepared and durable			3	15
Nest Egg.	The vine is an ornamental climber. The gourds are very useful as nest eggs.....			3	25
Dish Cloth or Luffa.	Requires a long season. Has ornamental blossoms, while the lining of the fruit is tough and spongelike and can be used for a dish cloth			3	25
Sugar Trough or Sap Bucket.	Grows large. Hard, thick shells but light and durable; can be used for many purposes			3	15
Hercules Club.	Often grows four to eight feet long. Grown on trellis are straight; on the ground they take odd shapes			3	15
Ornamental Sort.	Many beautiful shapes and colors mixed.....			3	15
Gourd Collection.	One packet each of the above six gourds only 10c.				

HERBS

Herbs delight in a rich, mellow soil. Sow the seeds early in the spring in shallow drills, one foot apart. When up a few inches thin to proper distance. Care should be taken to harvest them on a dry day, just before they come into full blossom; dry quickly in the shade, pack closely in dry boxes to exclude the air entirely.

Pkt.	Oz.	Pkt.	Oz.	Pkt.	Oz.	Pkt.	Oz.
Anise	3 15	Dill	3 10	Sweet Majoram	3 15	Balsam Apple.	3
Fennel, Sweet.	3 10	Saffron.....	3 15	Basil, Sweet...	3 15	Hoarhound ..	3 25
Sage.....	3 15	Borage	3 20	Lavender	3 20	Savory, Sum'r	3 10
Caraway.....	3 10	Rosemary.....	3 40	Thyme	3 25	Coriander	3 10
Rue	3 15						

HOLT'S MAMMOTH SAGE

This large leaved variety has been tested for years and we can recommend it as being far superior to the old variety. Yield more leaves to the plant than a dozen of the common sage. Plants are strong, grow a foot high and spread two to three feet the first season. The leaves are borne well up from the ground, are clean, strong in flavor, and of superfine quality. Perfectly hardy, even in extreme Northern states. This variety does not produce seed, hence we offer strong rooted plants only. Each 8c; two for 15c; four for 25c; dozen 60c, postpaid. Not prepaid, 100 \$3.00.

KOHL RABI

One ounce for 1500 plants

When young and tender they are fine for table use. Better, as a rule, than early turnips, sweeter and more tender. For early use sow in hot bed and transplant like cabbage. For winter use sow about middle of June, in rows eighteen inches apart, thinning to three inches in the row.

Pkt. Oz. $\frac{1}{4}$ lb.

Early White Vienna.	Flesh white and tender. Best for forcing for early market.....			3	20	60
Early Purple Vienna.	A little later than the white, and of purple color.....			3	20	60

LEEK

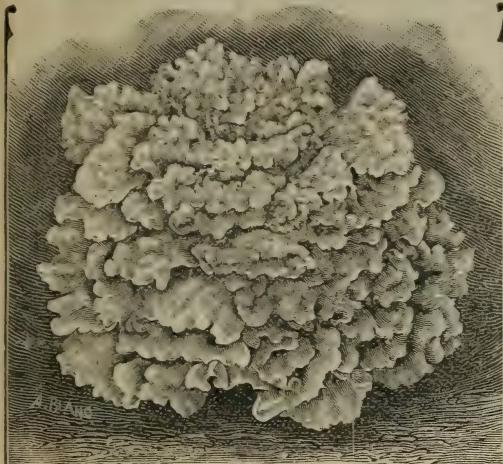
One ounce to 1500 plants

Large American Flag.....	3	10
Large Musselburg	3	10

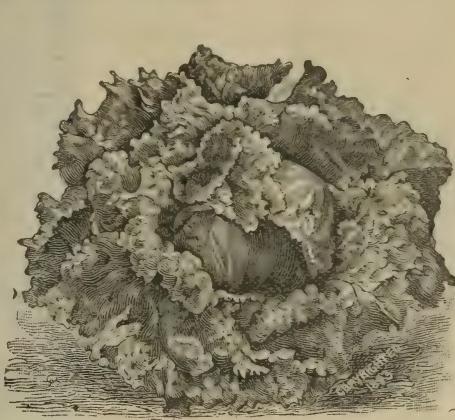
LETTUCE

One ounce to 2000 plants.

Sow early as ground can be worked and at intervals of two weeks until hot weather.



Black Seeded Simpson



Improved Hanson

Postpaid
Pkt. Oz. $\frac{1}{4}$ lb

Black Seeded Simpson. This is the first early lettuce. It does not form a head but rapidly forms a large mass of beautiful, crisp, curly leaves very light in color. One of the very best for growing under glass.....

3 10 30

Improved Hanson. This is known as a head lettuce. When planted early, thinned to six inches apart and given proper care it produces fine heads. However it may be sown thickly and used satisfactorily at any stage of its growth. Its good qualities have made it very popular and it retains its friends. A standard variety for home or market garden.....

3 10 30

Grand Rapids (Black Seeded). Good for forcing. Plant of upright growth forming a loose head or cluster of light colored leaves. A good shipper and popular with market gardeners

3 10 30

Prize Head. Specially desirable for home gardens; too tender for market unless delivered direct to consumers. Plant large, leaves bright green tinged with brownish red. Forms a large, loose head which is tender, crisp and fine flavored

3 10 30

LETTUCE CULTURE

The above list, though short, will cover the season. Sow very early, just as soon as the frost is out deep enough to use a garden rake.

If heads are wanted, thin to six inches apart each way, have the soil rich, and if season continues cool and moist fine plant can be grown. All varieties are injured by hot, dry weather.

For later use sow on the north side of a high fence or under lath screen.

MUSTARD

One ounce to 150 feet of drill. Use for greens in early spring.

White English Mild and tender when young..... 3 7 20
Southern Giant Curled (New Chinese), Popular in the south..... 3 15 30

MUSHROOMS

Can be easily grown in any ordinary cellar or barn, and it is one of the most profitable crops. One pound will spawn about ten square feet. Printed instructions about growing free with order.

Mushrooms—How to Grow Them. By Wm. Falconer. The most practical work ever written on the subject. Price, \$1.00.

English Mushroom Spawn. It comes in pressed bricks. These are broken up into pieces about one inch square and put into the bed eight inches apart each way. Price, per pound, 25c; five pounds, \$1.10 postpaid.

MUSKMELON

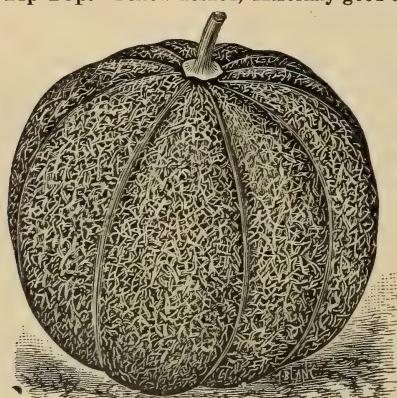
One ounce for 50 hills; four pounds
for an acre.

Use Slug Shot for bugs; 5
lbs., 30¢; 10 lbs., 50¢; not
prepaid. Ask for directions.



Rocky Ford

	Postpaid	
	Pkt. Oz. $\frac{1}{4}$ lb. Lb.	
Netted Gem. One of the earliest and best small melons grown. Globular in shape, very uniform in size and weight, flesh light green and of very fine flavor, exceedingly productive and will keep for nearly a week after being picked; excellent for crating to ship	3 10 25 85	
Emerald Gem. One of the sweetest melons in the list. Comes into bearing about same time as Netted Gem, but has a rich yellow flesh, as indicated by its name. It has a dark green rind only slightly, netted. This is the only extra early variety having salmon flesh. The flesh is very thick, juicy and sweet	3 10 25 85	
Rocky Ford. Well known as a fine table melon. A splendid shipper. Fruit is small, oval; thick, green flesh and high flavor. We offer fine stock of this variety	3 10 25 95	
Early Green Nutmeg. One of the very best. Highly scented flesh, thick, sweet and fine flavored; of good size and quite early	3 10 25 75	
Extra Early Hackensack. One of the best general crop, green fleshed nutmegs now offered. Round, well netted, large size; flesh green and thick, delicious flavor, beautiful in appearance. Our stock of this is excellent	3 10 25 85	
Tip Top. Yellow fleshed, uniformly good throughout the season, slightly netted, vines vigorous and prolific. A standard market melon	3 10 25 85	



Perfection

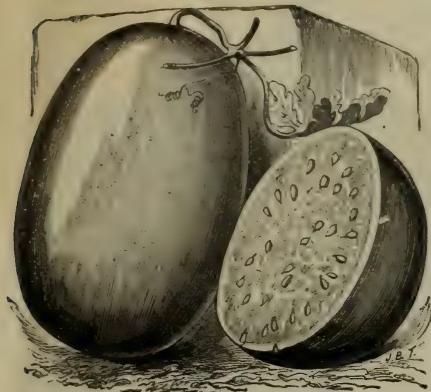
Perfection. This variety has given general satisfaction on account of its extra fine quality. It is of the nutmeg shape and quite large size, five to eight pounds each. The skin is a dark green color, heavily netted, and on this account are very saleable. Flesh is very thick, salmon color and of very rich flavor	3 10 25 75
Osage or Miller's Cream. In shape a pointed oval, medium size; color dark green slightly netted, and of a rich orange color on under side. Flesh is thick, salmon colored and of finest highest flavor. Very popular wherever known	3 10 25 75
Cream Cantelope. Large size. Medium early and the best shipper of all the yellow flesh varieties. Splendid full flavored sort	3 10 25 75
Winter Pineapple. Requires to be stored to ripen. For fall and winter use	3 10

See last pages of this catalogue for Berry Boxes, Potatoes, Tools, Poultry Supplies, Field and Grass Seeds. If interested in Fall Seeds, Bulbs, etc., send for our Fall Catalogue.

WATERMELON

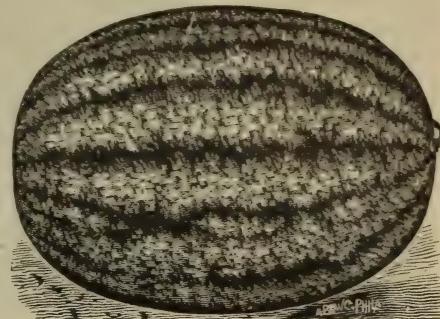
Use Slug Shot to drive off Melon Bugs; 5-lb. package, 30c; 10-lb., 50c. It must be sent by express or freight at buyer's expense.

One ounce of seed for thirty hills. One to two pounds for an acre.



Peerless or Ice Cream

TWO
GOOD
ONES



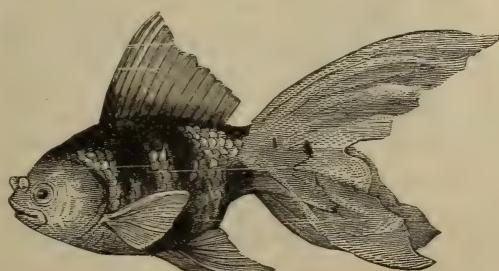
Phinney

Postpaid
Pkt. Oz. $\frac{1}{2}$ lb. Lb

Extra Early Phinney. The first to ripen, fair size, deep red flesh of good quality. The surest cropper in short seasons and in unfavorable locations.....	3	7	15	50
Cole's Early. Early enough to plant where melon season is short. Color green striped with lighter shades; oval in shape, flesh red, crisp and sweet	3	7	20	60
Fordhook. The largest early melon. Shape round. Color medium green. Flesh bright red, of fine quality. A good shipper.....	3	7	20	60
McIver's Sugar. Medium early, having the finest flavor of any melon we know. Its quality is always good and when conditions favor is extraordinarily fine	3	10	20	60
Peerless or Ice Cream. Medium early. Nothing better listed for main crop for home and nearby markets. Medium to large in size. Oval shaped. Color very light green, finely netted. Quality the best	3	7	15	50
Pride of Georgia. Medium early. In color a dark mottled green. Will ship well. Good quality and size	3	7	15	60
The Dixie. A reliable cropper, having the size, form, appearance, thin firm rind and keeping quality which make up a shipper.....	3	7	15	50
Kolb's Gem. The great shipper	3	7	15	50
Preserving Citron. (Red seeded.) Used for preserves	3	10	25	

Gold Fish and Globes

For an attractive ornament a bowl of Gold Fish is unsurpassed. Fish and Globes can both be sent by express. When ordering fish add 10c for bucket. Prices, Fish, 10c, 15c, 20c, 25c, 35c and 50c each. Globes, 20c, 35c, 50c, 60c, 75c, \$1.00, \$1.25. Footed Globes, \$1.00, \$1.40, \$1.75 each.



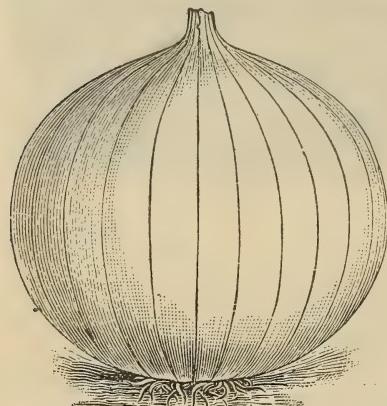
SPRATT'S PATENT DOG CAKES AND MEDICINES

If you have a dog be sure and send for free book of useful information.

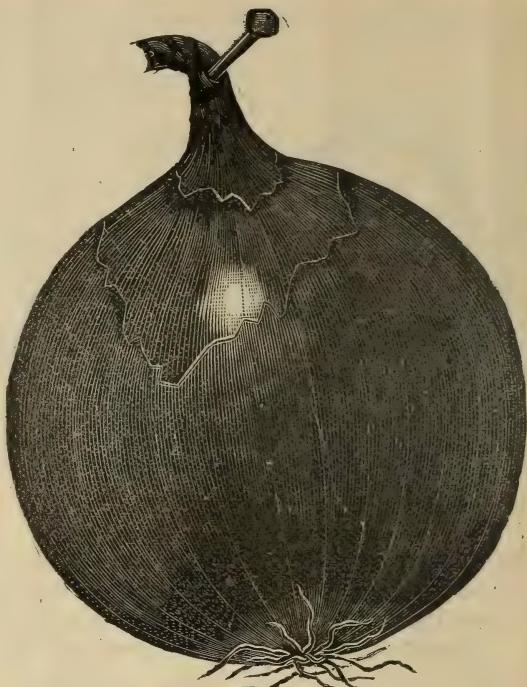
ONIONS

One ounce onion seed sows 150 feet; four pounds to an acre.

The New Onion Culture. This new book is full of new, original and valuable matter of material interest to those who grow onions. By the new process here described two bushels or more can be produced on the same ground that now produces one. Price 50c.



Large White Globe



Large Red Globe Postpaid
Pkt. Oz. $\frac{1}{4}$ lb. Lb.

White Barletta. The earliest onion grown; just right size for pickling.....	3	20	60	2.00
Large White Globe. Sometimes called Southport White Globe. Produces handsome, well-shaped bulbs. Good yielder, and has fine table qualities. To produce the best white onions requires, first, good seed; second, rich land; third, good culture; fourth, careful harvesting. White onions should not stand too long before pulling when ripe, and should be cured in the shade. They have not the keeping qualities of other varieties, but are always in demand for the fall and early winter market. We offer good seed for next season.....	3	20	60	2.00
Large White Globe. (Northern grown.) Grown from select stock to produce the highest type of white globe onions. We suggest to buyers to include this as part of their onion seed order and try high grade seed. Supply limited.....	3	25	75	2.75
Yellow Globe Danvers. High grade seed; medium large; attractive color; well-shaped with small neck; a good keeper. It should form a part of the main crop for home or market	3	20	30	1.00
Red Globe. (Southport.) Matures for main crop. Heavy cropper. Its round shape, fine, glossy, dark red color, and keeping qualities make it widely popular.....	3	20	50	1.50
Red Globe. (Northern grown.) Nothing finer offered in red globe seed. It is grown to supply the particular onion growers who want something for critical customers. Plant some alongside other stocks and compare them. Supply limited.....	3	25	70	2.50

Up-to-date Garden Tools make light work. See our list on last page.
A Drill and Wheel Hoe is what you want for Onion Raising.

ONIONS—Continued



Large Red Wethersfield

	Postpaid		
Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.

Large Red Wethersfield. For general purposes the country over no red variety is so largely grown. Large size, skin deep purplish red. It is one of the best keepers. We cannot recommend it too highly as a general cropper and variety that will do well anywhere that large onions can be grown. It yields very large crops when conditions are favorable.....	3	10	30	1.00
Mammoth Prize Taker or Yellow Spanish. In form nearly round, largest size, flesh white, mild and tender. If started very early in hot beds and transplanted it produces enormous bulbs for fair exhibits or table use.....	3	15	50	1.60

Ask for prices on larger quantities of Onion Seed.

ONION SETS

The earliest onions to be pulled green are produced from sets, and we advise their use for the amateur or kitchen gardener, as well as for the market gardener.

	Postpaid
Pkt.	Qt.

Red Top or Button Sets. One of the finest for young onions.....	20	40
White Bottom Sets. These are grown from seed and are what is used for large planting.....	15	30
Yellow Bottom Sets. The same as the white except in color.....	15	30
Red Bottom Sets. The same as the white except in color	15	30
Winter or Egyptian Sets. Can be put out in the spring but preferred in the fall.....	10	20

Write for prices on Onion Sets by the bushel.

PUMPKINS

	Postpaid		
Pkt.	Oz.	$\frac{1}{4}$ lb.	Lb.

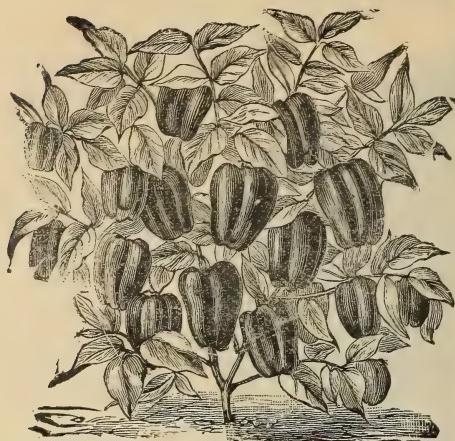
Large Common Yellow Field. Grown principally for feeding stock. Does well in corn	3	5	12	40
Large Sweet Cheese. Excellent for pies. Productive; yellow flesh; keeps well; fine for stock	3	7	20	60
Sweet or Sugar. Fruit small and round; very prolific; flesh yellow; superior for pies; keeps well	3	7	20	60
Mammoth Potiron. Grown for exhibition. Has weighed 200 pounds. Practical value is for stock on account of large yield.....	3		15	

The cost of seed is merely nothing compared with the large amount of feed obtained from a good crop of Pumpkins,

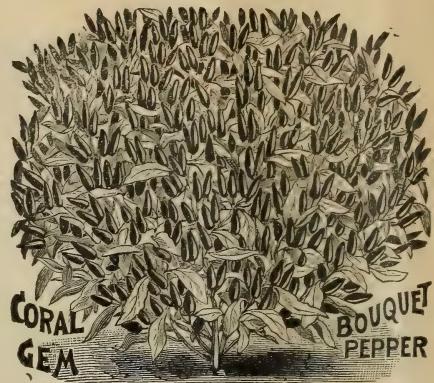
DWARF ESSEX RAPE. In planning your Forage Crops for stock do not forget Rape. If not already familiar with its use, it is wise to begin to learn its great feeding value. Notice what we say on page 37, and write us for our "Rape, Culture and Uses."

PEPPERS

One ounce to 1500 plants.



Bell or Bull Nose



	Pkt.	Oz.	$\frac{1}{2}$ lb.
Coral Gem Bouquet. Small; very fine; extremely hot, used in making pepper sauce. The plant is ornamental and often marketed on the bush	3	30	
Cayenne (Chili). Small, red; very hot	3	25	
Long Red Cayenne. Beautiful and productive; four inches long and a half inch or more in diameter. Flesh thick and hot.....	3	25	
Large Bell or Bull Nose. An early variety of mild flavor, the rind thick and fleshy. The most popular for making mangoes	3	20	
Large Sweet Mountain. Very large and excellent for mangoes	3	20	
Mammoth Ruby King Mango. The largest of all. When ripe are a bright red color and always pleasant and mild. The best for poor soil	3	20	
Mammoth Golden Queen. A very large yellow sort of fine shape and flavor for mangoes..	3	25	

PARSLEY

One ounce to 150 feet of drill.

Double Curled. A fine dwarf variety	3	10	20
Champion Moss Curled. Very beautifully crimped and curled.....	3	10	20
Fern Leaved. Very desirable for table decorations.....	3	10	20

PARSNIPS

One ounce to 100 feet of drill; five pounds to an acre. To raise short Parsnips plow shallow.

	Pkt.	Oz.	$\frac{1}{2}$ lb.	Lb.
Large Sugar or Hollow Crown. The standard variety. Roots white, smooth, of fine flavor.....	3	7	15	50
Guernsey. A close rival of the Hollow Crown.....	3	7	15	50

PEANUTS

Large Pkt. $\frac{1}{2}$ lb. Lb.

Early Spanish. Earliest variety, fine quality. Especially adapted for growing in the north	10	20	35
Mammoth Virginia. Largest pods of any variety	10	20	35

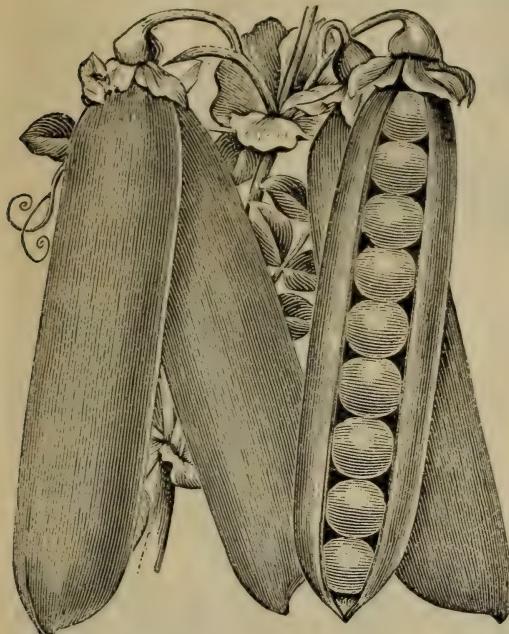
COMMERCIAL FERTILIZERS

The market gardener who has not begun to learn how to use Commercial Fertilizers will find he is being outstripped by his competitors. In the hand of the posted user they produce results which cannot be attained by the use of barnyard manure, no matter how heavily applied. Please read what is said of them on page 39.

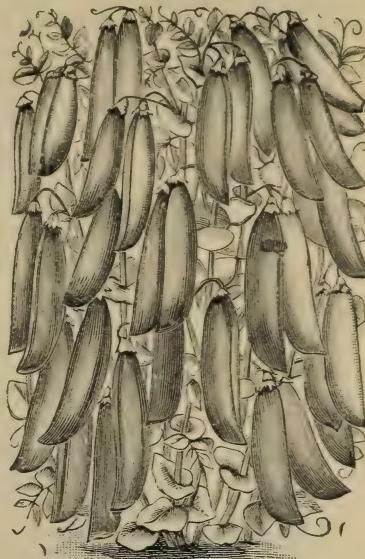
GARDEN PEAS

One quart sows eighty feet of drill; 2 to 3 bushels to the acre.

Quart and pint prices on Peas include postage: if to go by express at buyer's expense, deduct 15c per quart or 8c per pint from prices below. Half pints will be sent at pint rates.



Nott's Excelsior



First in Market

This list is arranged as far as possible in the order of maturity. Our Peas are grown in the far north; this insures freedom from bugs, early maturity and the vigorous growth necessary to productiveness.

Postpaid
Pkt. Pt. Qt.

Alaska.	An early dwarf variety which can be planted while the ground is cold. It is the earliest pea known. Any market gardener who wishes an early variety of the best quality should have this one on his list for this year. Ready to pick in 50 days	3	25	45
First in Market.	A dwarf variety only a few days later than the Alaska but has larger pods. Nearly as hardy as Alaska. Quality fair and on account of hardiness can be planted ten days earlier than the wrinkled sorts. The entire crop can be picked almost at one time and then planted to a second crop. Bears in fifty-five days	3	25	45
American Wonder.	A wrinkled dwarf of robust habit, growing from ten to fifteen inches high and produces a profusion of good sized and well filled pods of fine quality. Ready to pick in fifty days	3	25	50
Premium Gem.	A very fine dwarf wrinkled pea of Little Gem type on which it is an improvement, having larger pods and more productive. A profitable wrinkled pea for home or market garden. Ready to pick in sixty days	3	25	45
Gradus.	A half dwarf wrinkled pea, but unlike most wrinkled peas is hardy and can be planted very early. Very productive, having extra large well filled pod of good quality	3	35	60
Nott's Excelsior.	A grand new early dwarf wrinkled pea. Loaded with large pods, well filled with luscious peas. A standard for both home and market garden everywhere. Ready to pick in fifty-five days	3	25	50
Everbearing.	A half dwarf wrinkled second early sort; very productive; peas large, delicious; continues long in bearing	3	25	45
Advancer.	A half dwarf wrinkled second early. A very sure bearer of fine flavored peas. It can be relied on. Ready in sixty days	3	25	45

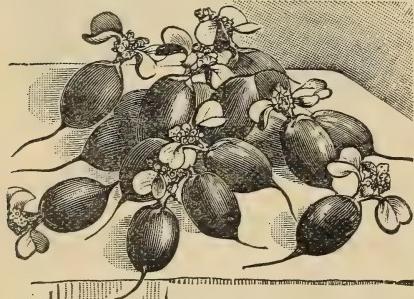
		Postpaid Pkt. Pt. Qt.
Telephone. A half dwarf wrinkled second early. A standard variety, productive, very fine quality. Ready to pick in seventy days.....	3	25 45
Stratagem. A half dwarf wrinkled second early pea; vigorous, an enormous cropper. Pods long, well filled with enormous peas of excellent quality. Ready to pick in eighty days....	3	25 45
Champion of England. A tall, late, wrinkled variety. Bearing peas of the very finest quality. Do not fail to support it with sticks to obtain the best returns from its late bearing and exceptional quality. Ready in eighty days	3	20 40
Large, White Marrowfat. A tall, late, smooth pea. An enormous cropper; popular with market gardeners. Can be grown without, but is improved by sticking. Ready in eighty-five days.....	3	15 30

RADISH

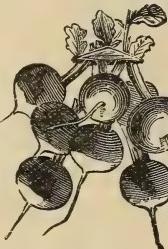
One ounce sows one hundred feet of drill.

If to go at the buyer's expense you may deduct at the rate of 10c per pound.

Sow every two weeks from March to September for a succession; they must grow rapidly to be crisp, mild and tender.



New Leafless



White Tipped
Scarlet Turnip



Scarlet Globe

		Postpaid Pkt. Oz. $\frac{1}{4}$ lb. lb.
New Leafless. Olive shape, extra early, so called because the root develops faster than the leaves, which are few and small. Has fine, bright color and excellent quality	3	20 75
Non-Plus Ultra. New, turnip shaped, deep scarlet. A standard variety for forcing, producing few leaves. Growing in favor.....	3	10 25 90
Early Scarlet Turnip. Color a deep red. A standard early. An all-round favorite. Does well in May and nothing better for July planting	3	8 20 65
Scarlet Turnip White Tipped. Very early. Its color gives it a handsome appearance, which is borne out by its fine quality.....	3	8 20 65
White Turnip. (White Box.) This is similar to the scarlet turnip except in color it is a very fine white radish	3	8 20 65
French Breakfast. Oval form, early, scarlet with white tip. Good for forcing.....	3	8 20 65
Early Scarlet Globe. Early, attractive color, fine quality. A prime favorite for outdoor planting. It is also well adapted for forcing.....	3	8 20 65
Long Scarlet Short Top. The best early long variety for outdoor planting. Straight and uniform in color; inclines to grow out of the ground. A standard favorite.....	3	8 20 65

RADISH—Continued**Lady Finger**

	Pkt.	Postpaid Oz.	1/4 lb.	Lb.
Lady Finger (Long White Vienna). This is one of the finest long white early summer varieties grown; is pure pearl white, almost transparent; stands well, crisp and sweet	3	8	20	65
Cincinnati Market. An attractive long scarlet with thin skin; flesh crisp; tops small. It remains in good condition for some time. A desirable red radish for any garden	3	8	20	65
Chartiers (Shepherd's). A time-tried favorite everywhere. The color at the top is crimson, running into pink about the middle and from thence downward a pure waxy white. It will attain a large size before it becomes unfit for the table. Undoubtedly one of the best "all seasons" radishes for out-door planting	3	8	20	65
White Strasburg. The roots are a handsome oblong, tapering shape. Both skin and flesh are pure white. The flesh is firm, brittle and tender and possesses the desirable quality of retaining its crispness even when roots are old and large.....	3	8	20	65

RADISH (Winter)

May be sown from middle of July to middle of August same as turnips. Like them may be used through the fall or stored for winter.

China Rose Winter. A brilliant rose colored variety of excellent quality, attractive appearance. Good keeper and seller	3	10	20	75
China White Winter. Grows large; fine flavor; brittle. Has a white skin and flesh, keeps well.....	3	10	25	75
Long Black Spanish. Russet skin, dark white flesh.....	3	8	20	60
Round Black Spanish. Russet skin, dark white flesh.....	3	8	20	60

RHUBARB

Sow the seed early in drills one inch deep. The roots are preferable.

Victoria	3	15	40
Linneaus	3	15	40

Roots: Small, postpaid, 15c; large, not postpaid, 8c; dozen, 60c.

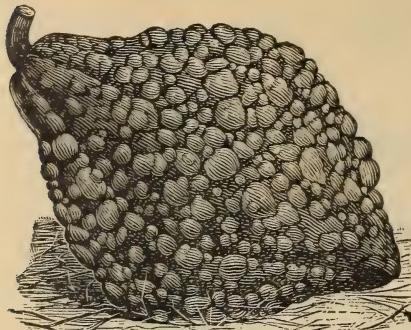
SEED CORN

We have some very fine varieties of corn listed on page 35; every farmer knows the value of good seed corn. We advise you to look this list over carefully and see if there is not some thing here which will interest you. We ship our corn either on ear or shelled and in this way you can see what you are buying.

SORGHUM OR CANE SEED

We are headquarters for cane seed. It is the greatest feed producing plant in the world, making the very best forage for all kinds of stock.

See Cultural directions on page 36.



Warted Hubbard Squash



Spinach

SQUASH

One ounce to forty hills of the bush varieties; fifteen of others. Three pounds to an acre of bush; four of others.

Use Slug Shot for bugs. Five pounds, 30c.

	Postpaid
	Pkt. Oz. $\frac{1}{2}$ lb. Lb.
White Bush (Patty Pan). Early summer.....	3 7 15 45
Yellow Bush (Patty Pan). Early summer	3 7 15 45
Early Yellow Crookneck. Early summer.....	3 7 15 45
Giant Yellow Crookneck. Early summer	3 7 15 45
American Turban. The best fall squash. Color, orange yellow.....	3 15
Hubbard. The standard fall and winter variety. Color dark green when ripe. Flesh dark yellow, fine grained, dry and sweet. Has a hard, warty shell and can be kept till spring	
It needs no recommendation to those who have grown it.....	3 10 25 75
Warted Hubbard. A strain of the Hubbard, more warted than the original. Color very dark green, shell like flint. Its appearance sells it and its quality satisfies the buyer.....	3 10 25 85
Sibley (Pike's Peak). One of the earliest and best of all fall squashes, pear shaped with stem on large end; flesh orange color, thick and fine grained. An excellent shipper and long keeper.....	3 15 35 1.25
Cushaw (Crookneck). The old fashioned Cushaw squash is good yet. Almost all meat. Splendid for pies.....	3 8 20 70

SPINACH

One ounce to 100 feet of drill. Ten pounds to an acre.

Sow as early as ground can be worked and it will repay you with the finest "greens."

	Oz. $\frac{1}{2}$ lb. Lb.
Savoy Leaved (Norfolk Bloomsdale). An early variety. Plants of upright growth with fine leaves crumpled like Savoy cabbage. Grows quickly to a size to use. Recommended for fall sowing.....	5 10 35
Long Standing. An improved strain of excellent merit, having all the good qualities of other sorts. Especially desirable for market gardeners because it is so much later in going to seed	5 10 35
Viroflay or Thick Leaved. Very large, productive, fine quality.....	5 10 35
Round Leaved. Hardy; the favorite for fall sowing.....	5 10 35

Salsify or Vegetable Oyster

One ounce to fifty feet of drill.

Sow early in drills eighteen inches apart and two inches deep.

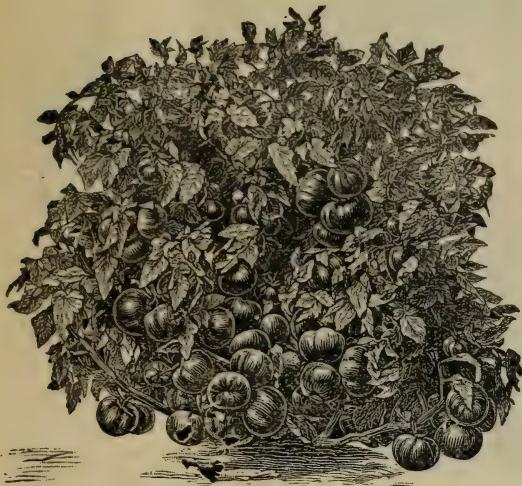
	Pkt. Oz. $\frac{1}{2}$ lb. Lb.
Mammoth Sandwich Island. A standard variety.....	3 15 40 1.50
Long White. Preferred by some.....	3 15 40 1.25

FALL BULBS AND FARM SEEDS

Do not forget to write for our fall Catalogue on Bulbs, Timothy, Fall Rye and Wheat. In these we are prepared to furnish you with the very best, as we grow most of our farm seeds ourselves, and have only such well-known hardy varieties which are well adapted to this country.

TOMATOES

One ounce will produce about 2,000 plants.



Dwarf Champion



LIVINGSTON'S BEAUTY TOMATO.

Pkt. Oz. $\frac{1}{4}$ lb.

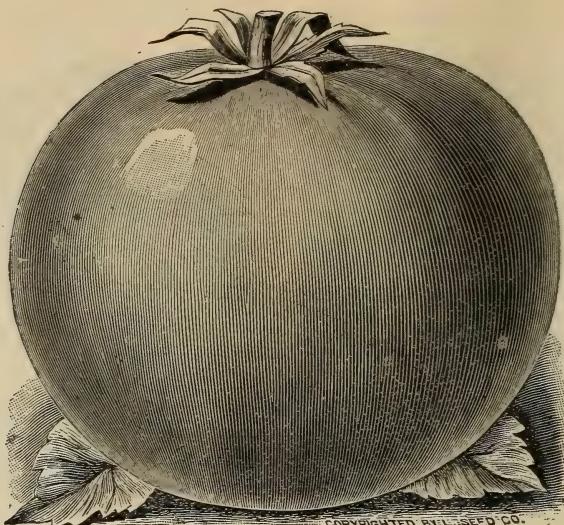
Early Minnesota. New. Said to be the earliest good tomato. Of a dark red color, round as a ball, firm fleshed and very productive. Of about an average size. A choice variety for home or market before the larger sorts have ripened.....	3	25
Dwarf Champion. A standard first early tomato. Has stocky, stiff stems which stand up even when loaded with fruit. The foliage is a very dark green, leaves thick. On account of habit of growth will bear close planting. Fruit medium in size, dark purple. Popular for forcing in green house and first crop in field.....	3	20
Livingston's Beauty. The great table and market sort. The color a very glossy crimson, with a slight tinge of purple. It grows in clusters of four or five large fruits, retaining its large size until late in the season. It ripens very early; entirely free from rough specimens. It seldom cracks; for early market it cannot be excelled on account of its solidity, toughness of skin, and on account of its color, as when picked quite green it will ripen nicely and look well.....	3	20
Livingston's Perfection. Large, early, blood red in color; solid flesh and few seeds; perfectly smooth. Produces large fruit until the close of the season. Popular main crop sort.....	3	20
Livingston's Favorite. A leading variety with the canners, having a beautiful crimson scarlet flesh so much desired by those who pack first-class goods. In color a rich, dark red; ripens very evenly and holds its size well to the end of the season. Very prolific, fine flavor, few seeds, flesh solid. Does not easily crack; bears shipping a long distance	3	15
	60	60
	50	50

PLANTS

Remember that we carry the best line of all kinds of Plants; for prices see page 32.

GARDEN TOOLS

Cultivate your garden with hand weeders, trowels and Planet Jr. tools. It saves time and labor. Try them once and you will never be without them. For prices see pages 39 to 42.

TOMATOES—Continued**New Hawkeye**

Postpaid
Pkt. Oz. $\frac{1}{4}$ lb.

New Hawkeye. Comes quite early for one so large. Bears till fall. Perfectly smooth. Ripens all over and through the center the same day. No waste. Handsome. Glossy purplish red. Sells on sight. Has solid meat and seed cells; few seeds. You get five or more cans from a bushel than from the old style sorts. It's just what you have been looking for—a great big, perfectly smooth tomato; a can filler, a good seller. Try it	3 20 60
Livingston's Stone. For main crop; largest variety, of a bright scarlet color. Very Smooth, ripening evenly to the stem; exceedingly solid and firm fleshed; excellent shipper; quality very best; fine for canning; a good keeper; without hard core. Attractive; very productive	3 20 60
Livingston's Magnus. This is one of the best new tomatoes offered, is purplish in color, comes quite early, and is a heavy yielder. Perfectly smooth; very solid and heavy.....	3 25 75
Livingston's Honor Bright. Recommended as a shipping variety, because when gathered unripe it remains in good condition in the package. In the fall the fruit, or the vine with the fruit on may be hung up indoors from frost and it will ripen very satisfactorily.....	3 35
Golden Queen. A yellow sort of first-class quality. Sliced in a dish with red ones they contrast finely	3 25
Red Cherry. Used for preserves.....	3 25
Red Plum. Used for preserves.....	3 25
Yellow Pear. Used for preserves	3 25
Yellow Plum. Used for preserves.....	3 25
Husk Tomato or Ground Cherry. Used for preserves.....	3 25

TOMATO CULTURE

The early fruits are secured from plants sown in hot bed or pot in sunny window in the house. Transplanting when a month old to two inches apart each way. This makes them stocky and hardy. Do not water too freely and gradually accustom them to out-door temperature.

Transplant to field as soon as danger of frost has passed, or sooner if so few they can be protected from frost. Make rows for early varieties four feet apart and set plants two feet apart. The later varieties in rows four to five feet apart and plants three feet apart.



Milan

TURNIP

One ounce sows 150 feet of drill. One pound sows an acre.



Purple Top Strap Leaved

Postpaid

Pkt. Oz $\frac{1}{4}$ lb. Lb.

Extra Early Purple Top Milan. A standard early for spring sowing. Pearl white with bright purple top. Fine quality, which it retains until the weather is hot. Sown early it is ready for use before potatoes are fit to dig and furnishes a welcome addition to the table..... 3 10 25 75

Extra Early White Milan. Has almost the same qualities as the preceding, but is entirely white. Preferred by some..... 3 10 25 75

White Egg. A quick growing, egg-shaped variety; smooth and white. Flesh firm, sweet and mild. It follows the Milans in season and its habit of growth enables it to retain its sweetness longer in hot weather..... 3 7 15 50

Purple Top Strap Leaf. The well known popular variety for family or market use in the fall and winter. May be sown from July 25th to September 10th. Grows to large size; color, white, purple above ground; attractive appearance, fine flavor, a good keeper 3 7 15 50

Purple Top White Globe. Growing to be a standard variety for fall sowing. Its shape makes it convenient to prepare for the table. Its appearance, quality and productiveness are points liked by both grower and consumer..... 3 7 15 50

Early Flat Dutch or White Top Strap Leaf. Of good size; pure white; small top with but few leaves; very sweet. Is preferred by some..... 3 7 15 50

Large White Globe. Productive; growing in rich soil and suitable season to ten pounds in weight. Skin white and smooth..... 3 7 15 50

Large Amber Globe. A standard where yellow fleshed turnips are wanted for table use or for field crop for stock feed. Flesh yellow, fine grained and sweet. Color of skin, yellow; hardy; keeps well; grows large. Very popular in the south..... 3 7 15 50

RUTA BAGA OR SWEDISH TURNIP

American Yellow Purple Top. Very hardy and productive. Flesh yellow, solid, sweet and fine flavored. The best variety for stock and table use.. 3 10 20 60



American Yellow Purple Top

TOBACCO

Book on Tobacco Culture, 25c.

Connecticut Seed Leaf. Finest variety for wrappers..... 3 25

Havanna. Genuine article..... 3 25

FLOWER SEEDS

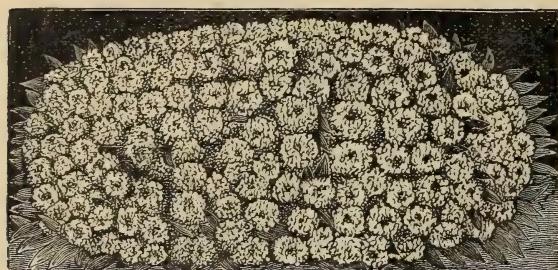
We have endeavored in selecting the following list to meet the tastes of the lover of our favorite flowers rather than of the professional florist. We have listed what will most surely repay the amateur lover of flowers for expense and time required.

Send 25 cents and select **Packets** to the value of 30 cents.

Send 50 cents and select **Packets** to the value of 65 cents.

Send \$1.00 and select **Packets** to the value of \$1.30.

These offers apply to Flower Seed **Packets only** and are not subject to any other discount.



Alyssum

ASTERS (Fall Roses). Half hardy annuals.

Very beautiful and popular plants, growing from ten to thirteen inches high. For profusion of flowers and richness of display the Asters are unrivalled, and constitute the principal adornment of our gardens during the autumn. Sow the seed early in spring, under glass or in pots in the house, and transplant into rich soil, about one foot apart.

Victoria. Grows about twenty inches high. Pkt.

This is one of the finest growing strains of the tall growing Asters. All colors mixed..... 3

Bouquet. A dwarf strain about one foot high.

Each plant produces fifteen to twenty blooms. Useful to form edging to flower beds. All colors mixed..... 3

ALYSSUM. Hardy Annual.

An old favorite as easily grown as a weed, flowering from early spring till killed by frost, and all winter in the house, if sown in August. Flowers pure white and of a delicate fragrance. Most effective in masses and borders of beds. Useful in all kinds of small bouquets.

Odoratum or Sweet. The standard variety 3

Little Gem. The plants are very dwarf, and each spreads so as to completely cover a space a foot in diameter. They soon become one mass of bloom, which is pure white, and remains from spring to fall. The little spikes of bloom are deliciously fragrant

3

AGERATUM. Hardy annual.

Mexicanum. Blue. Desirable in the garden, and prized by florists because it bears a great many flowers, and keeps in bloom a long time. Desirable for bouquet making. It blooms constantly all summer in the garden, and if removed to the greenhouse, all winter. Grows $1\frac{1}{2}$ feet high, and plants should stand two feet apart.

Color light blue..... 3

BALLOON VINE (Love in a Puff).

Annual Climber.

A very rapid grower and delights in a light soil and a warm situation, grows ten to fifteen feet; white flowers followed by seed vessels about the size of an English walnut, and looks like small balloons, which, with its beautifully cut leaves and foliage, makes a delightful porch screen..... 3

BALSAM (Lady Slipper or Touch-Me-Not).

Tender annual.

Our climate is well adapted to the growth of the Balsam, and with good rich soil and care, plants and flowers of the greatest excellence are produced. Sow in a frame or bed.

Double Camelia Flowered, Improved.

As double as a rose, which they resemble; almost every shade of color..... 5

Double Mixed. All colors..... 3

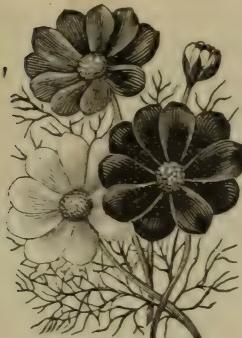
CANDYTUFT. Hardy annual.

Mixed Colors. Universally known and cultivated; considered indispensable for cutting. All the varieties look best in beds or masses. Seeds sown in autumn produce flowers early in the spring; when sown in April, flower from June to September and some of the sorts till frost comes. All the varieties are hardy and easy to cultivate; one foot high

CARNATION PINKS.

Extra Choice Mixed. This lovely flower, known to everybody, succeeds in rich, light soil, and will give better results from seed than if grown from slips of old plants. The seed we offer is from the best German growers, and cannot fail to please any one..... 10

FLOWER SEEDS—Continued

COSMOS. Annual.

Cosmos

Pkt.



Double Daisy

FORGET-ME-NOT—Myosotis. Hardy perennial

Alpestris Blue. The Forget-Me-Not is an old and favorite plant, bearing clusters of star-shaped, delicate blue flowers, with white and yellow eyes. It flourishes best in a moist, shady situation, and is in constant bloom nearly the whole season. If the seeds be sown in autumn it will succeed best and flower earlier in spring. Height six inches 3

DOUBLE DAISY. Perennial.

Fine Mixed. The Daisy is a charming little plant for edgings and borders. Give it a cool, partially shaded place. Sow seeds very early. The flowers are abundant in early spring, and may be made to flower later by the use of water

3

ESCHSCHOLTZIA—California Poppy.

Perennial.

Splendid Mixed. Blossoms about two inches in diameter, of many brilliant and showy colors. A bed of Eschscholtzia in the sunshine makes a blaze of color. Sow where the plants are wanted to bloom, as they do not bear transplanting. Thin to six inches apart. Half hardy perennial, one foot high 3

3

FOUR O'CLOCK—Marvel of Peru.

Hardy annual.

Finest Mixed. Old-fashioned, but none the less beautiful. Plant large; requires four feet of space; makes a pretty hedge. Flowers are funnel-shaped, white, red and striped; very fragrant and opens about four o'clock in the afternoon, remaining open all the night. Sow in open ground 3

3

HOLLYHOCK. Hardy perennial.

Plant the seed in June or July, in open ground; and in the autumn, when the plants have made five leaves, transplant to permanent position, three feet apart. The following summer they will bloom.

Allegheny. New. The color varies from palest shell pink to ruby red. Blooms from June till frost. An acquisition 5

Double Pure White. Well known favorite 3

Choice Mixed. Produces a fine variety of colors 3

Best Colors Mixed. Plants four to six feet high, with fine-feathery foliage, the flowers of all shades of rose, purple and pure white, are abundant late in the fall—September to November. Started early in April in a box, and planted out in May, they will flower before frost, and if taken inside will flower freely until the first of December; fragrant. For cutting this is one of the finest flowers grown 3

CALLIOPSIS (Coreopsis).

Fine Mixed. All colors. One of the most showy, free-flowering of hardy annuals; its graceful and showy flowers, embracing nearly every shade of yellow, orange and rich brown, verging to crimson, and borne on slender stems, are particularly well adapted for bouquets 3

BACHELOR'S BUTTON. Hardy annual.

Best Mixed. Two to three feet high. Fine for cut flowers 3

CASTOR BEANS—Ricinus.

Stately, strong growing plants, with very ornamental foliage, particularly well adapted as center plants of groups of Cannas, Caladiums, Dahlias, etc.; of very quick growth in rich soil. Plant where they are required. Tender annual, four to fifteen feet high.

Giganteus. Of mammoth size 3

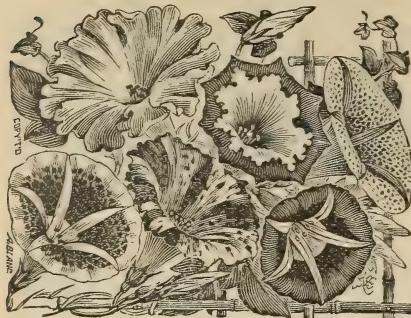
Gibsoni. Dwarf; branching, rich foliage 3

Common. Medium sized variety 3

CYPRESS VINE—Ipomoea. Annual.

Scarlet and White Mixed. A most beautiful climber, with delicate dark green feathery foliage, and an abundance of bright, star-shaped, rose, scarlet and white blossoms, which in the bright sunshine presents a mass of beauty. Planted by the side of veranda, tree or stakes, and trained properly, nothing is prettier. The seeds will sprout more readily if very warm water be poured on the ground after sowing 3

FLOWER SEEDS—Continued

MORNING GLORY. Annual climber.

Japanese Morning Glory Pkt.

Japanese. New. A variety with flowers of unusual size, finely variegated, the leaves are also beautifully marked. A decided improvement. The seed is flinty and should be soaked in warm water till it swells before planting. Sow in May in a warm sunny place in rich soil 5

Common. Mixed; ounce, 7c 3

MIGNONETTE. Hardy annual.

A well known hardy annual producing dense, semi-globular heads of exceedingly fragrant flowers, borne on spikes from three to six inches long. It is in bloom nearly the whole season, and the perfume is so strong and fragrant that the whole atmosphere around is perfumed. If it is sown at intervals during the spring and early summer it will be in bloom until killed by frost. Seeds sown in autumn will bloom early in spring. Height, one foot.

Sweet Mignonette. Large flowering 3

Golden Queen. A mass of golden yellow 3

Machet. Very dwarf; vigorous growth; massive spikes of deliciously scented red flowers 3

MARIGOLD. Annual.

A well-known magnificent plant, with handsome double flowers of rich, beautiful colors, and neat, compact green foliage, producing a splendid effect in almost any situation. Half hardy annual.

African. Mixed; tall, two to three feet high 3

French. Mixed; dwarf, hardy and showy 3

MORNING BRIDE. Annual.

Mixed Colors. A useful and ornamental plant with rich and beautifully colored flowers; effective for beds or borders, excellent for cutting. This old and well-known annual is not as generally cultivated as it deserves 3

NASTURTIUM. Annual.

One-half ounce, 10c; Ounce, 15c. Pkt.

Dwarf Mixed. Flowers of all different shades of yellow and red. The dwarf are round headed plants about a foot high, and make very fine beds for the garden. A bed of Dwarf Nasturtiums is very brilliant and attractive 3

Tall Mixed. The Tall Nasturtium is one of our prettiest and best trailers; it blooms more freely than dwarf varieties 3

PHLOX. Annual.

In its great variety of rich colors, probably the most brilliant of all annuals. Fine for bedding, making a dazzling show throughout the entire season. Seed may be sown in the open ground in May, or in a hot bed or cold frame earlier: and during the summer and autumn they make a most brilliant bed of showy, yet delicate flowers. Set plants one foot apart.

Star or Cuspidata. The center of each petal runs out into a point one-quarter to one-third of an inch beyond the edge, which gives the flower a regular star-like form. This variety is of compact habit and bears large umbels of flowers. The beautiful velvety florets, running through shades of scarlet, pink, violet, salmon and white produces an effect not excelled by any other flower 3

Drummondii. The colors range from the purest white to the deepest blood purple or crimson ... 3

POTULACCA—Rose Moss. Annual.

Makes a dazzling display of beauty, many hued, highly colored. In bloom from about the first of July till frost. Plant in the open ground after it has become warm in light sandy soil and in a dry situation. Bed should be exposed to the sun.

Fine Single Mixed. Many beautiful sorts .. 3

Double Rose Flowered. Perfectly double, many brilliant colors, as well as striped. Mixed colors 5

PINK—Dianthus. Annual.

All this beautiful class of pinks are hardy, and will flower the second season if not allowed to flower too freely the first season. Sow in a hot bed, transplant to six inches apart. If not kept too warm are useful for house plants.

Fine Single Mixed. These single pinks are notable for brilliantly colored flowers of large size 3

Choice Double Mixed. Large flowers as double and fragrant as a carnation 3

FLOWER SEEDS—Continued

PETUNIA. Hardy annual.

Petunia

Petunias are unsurpassed, if indeed equaled, for massing in beds. Their richness of color, duration of bloom and easy culture will always render them welcome and popular. They do well sown in open border in the spring or by sowing in hot bed they come earlier into bloom. Be careful not to cover the small seeds too deeply.

Pkt.

Gen. Dodd. Single; darkest red. Fine for massing 3

Blotched and Striped. Fine for pots, window boxes and bedding 3

Single Mixed. Will bring large beautiful flowers of superb colors and markings 5

Double Mixed. Sure to produce grand flowers. A certain proportion will come single or semi-double 20

PANSIES. Annual.

The seed may be sown in the hot bed or open ground. If sown in the spring get in **early** so as to secure flowers during the early rains and before the hot weather of July and August. Seed sown in May and June will produce very fine flowers in September and October, or after the first fall rains and cooler weather. They grow best in cool, deep, moist beds, shaded from the afternoon sun.

White, Black, Yellow, Purple, Brown Shades, Red Shades. Each, per packet... 3

Good Quality Mixed. All colors 3

Large Flowering Mixed. Made up from giant pansies 5

Superb Mixed. Grand pansies come from this seed 15

POPPIES. Hardy annual.

Showy and ornamental plants with large flowers of brilliant colors. Very attractive in large beds, clumps and mixed borders. Of easy culture, succeeding in any garden soil. Flowers in great profusion all summer if sown in early spring. Sow where they are to remain, as they do not bear transplanting. Two feet high.

Single Poppies Mixed. Many colors 3

Double Poppies Mixed. Unequalled for richness and variety of color 3

SNAPDRAGON—Antirrhinum. Annual.

An old favorite border plant, with curiously shaped flowers, with a finely marked throat. They have been much improved and are now really magnificent flowers. They will blossom the first season from seed sown in the spring. Two feet high.

Mixed. All colors 3

SALVIA—Flowering Sage. Tender perennial.

Very ornamental plants, flowering in spikes, and continues to bloom in open ground till frost, when the plants can be removed to the greenhouse and will continue to bloom a long time. Plants may be started in a hot bed and transplanted to light, rich soil, about one foot apart.

Splendens. A profuse bloomer with spikes ten to twelve inches long of intensely scarlet flowers 5

SWEET PEAS.

One ounce sows eight to ten feet of drill.

Sow as early as possible. Sweet Peas succeed best in a deep, rich soil. Sow in a trench five or six inches deep, covering the seeds at first with only two inches of soil; as the plants grow fill in the earth about them. Keep the vines watered copiously and cut the flowers freely. Do not allow the seed to form.

Fine Mixed. Lb., 35; $\frac{1}{4}$ lb., 12; oz., 5 3

Gilt Edged Mixed. Lb., 50; $\frac{1}{4}$ lb., 15; oz., 7... 3

Double Mixed. $\frac{1}{4}$ lb., 25; oz., 10 3

VERBENA. Annual.

Seedlings are stronger and more vigorous than plants from cuttings, and are usually fragrant, especially the light colors. The seed sprout very unevenly, some not coming up for six weeks after others. They flower perfectly well from seed sown in spring. If started in the house in pots or shallow boxes in winter, they will bloom sooner. Transplant as fast as plants are two inches high. Two feet apart each way.

Scarlet, Pure White or Striped. Each, per pkt. 3

Mam. Mixed or Choice Mixed. Very fine quality 5

FLOWER SEEDS—Continued**ZINNIA.** Annual.

The Zinnia is a brilliant annual and general favorite, its splendid double flowers rivaling in beauty, size and form moderate sized Dahlias. They bloom until frost.

Pkt.

Dwarf Fireball, Double White or Double Mixed. Each..... 3

CONDENSED LIST OF FLOWER SEEDS

Agrostemma.	Annual.	Fine for edging.....	3
Canterbury Bells.	Hardy biennial.	Bell shaped flowers.....	3
Calendula.	Pot Marigold.	Hardy annual.....	3
Coleus.	Annual.	For ornamental bedding and pot culture.....	3
Cockscomb (Celosia).	Fine mixed	3	
Canary Bird Flower.	Annual.	Ornamental creeper.....	3
Collinsia.	Hardy annual.	Mixed. Free bloomer.....	3
Evening Primrose.	Open evenings.	Fine flowering plants.....	3
Fox Glove (Digitalis).	Mixed.	Makes handsome plants.....	3
Gourds.	Mixed.	Small ornamental sorts.....	3
Gypsophila.	Adapted to rock work and edgings.....	3	
Godetia.	Annual.	Mixed. Free and constant bloomer.....	3
Gilia.	Annual.	Mixed. Finely cut foliage, celestial blue blossoms	3
Heliotrope.	Annual.	Mixed. Fragrant. For bedding uses and pot culture.....	3
Hyacinth Bean.	Annual.	Splendid climber. Purple and lilac flowers.....	3
Ice Plant.	Tender annual.	Peculiar foliage	3
Larkspur.	Annual.	Mixed. Produces dense spikes of flowers.....	3
Lantana.	Perennial.	Mixed. Bush covered with blossoms followed by berries	3
Nicotina.	Sweet scented tobacco plant.....	3	
Nemophila (Love Grove).	Mixed.	Exquisite flowers	3
Nolana.	Annual.	Mixed. Trailing plant for baskets or rock work.....	3
Sensitive Plant.	An oddity.	Attracting attention.....	3
Sweet William.	Hardy perennial.	Fine mixed	3
Smilax.	Tender perennial.	Fine climber.....	3
Sunflower.	Annual.	Dwarf double. Good for screens.....	3
Sunflower.	Mam. Russian.	Large, productive; $\frac{1}{4}$ lb., 10c; oz., 5c.....	3
Sedum (Stone Crop).	Mixed.	For rockery or hanging baskets.....	3
Violet.	Fine for beds and edgings in shady situation	3	

FLOWER POTS

We carry a complete stock of these and can supply in large or small quantities.

Ask for prices, stating quantity wanted.

SUMMER FLOWERING BULBS

All Bulbs sent prepaid unless otherwise noted.

AMARYLLIS.

These bulbs produce attractive, showy flowers, resembling lilies. They require rich soil and plenty of water during their growing period.

Each

Formississima (Jacobean Lily). Flowers are deep crimson; color very striking..... 10

Atamasco. Fine for bedding. White suffused with rose. Dozen, 35c; three for 10c..... 5

Johnsonii. Flowers large, crimson, striped with white. Very fine..... 25

AMPELOPSIS—Ivy.

Boston or Japan Ivy (Veichtii). A variety that has tendrils so strong that they cling to any kind of wall, wood, brick or stone, clothing it during the summer with a mass of deep green overlapping leaves.

25

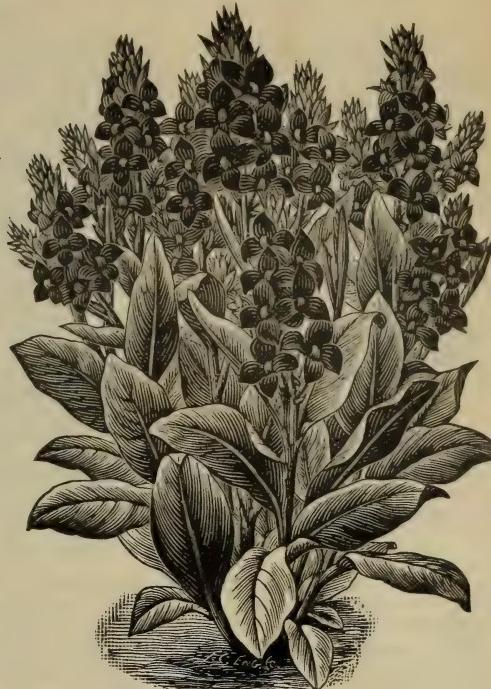
These change in autumn to a bright yellow and crimson..... 25

Virginia Creeper American Ivy. A perfectly hardy variety under all conditions. Grow very rapidly. 25

SUMMER FLOWERING BULBS—Continued



Caladium



Canna

BEGONIAS—Tuberous Rooted

The extra large size and beautiful colors recommend this flower to all. They are easily grown and cared for. For growing in pots or boxes in the house, plant in rich, sandy soil; give good drainage, water freely after the leaves start, but do not let the soil become sour or logged from over watering. If it is desired to have a bed outdoors, select a shady, moist situation, making the bed rich with thoroughly rotted manure and leaf mould, if obtainable. Plant as soon as danger from frost is over. After the plants start into vigorous growth keep well watered. If planted in a proper situation no plant will give a more magnificent display throughout the summer. The single varieties are most satisfactory for general purpose.

Each

Single Mixed. Fine tubers embracing every shade of color. Dozen, 75c; four for 25c..... 10
Double Mixed. Fine mixtures of many varieties. Dozen, \$1.50; four for 50c..... 15

CANNAS

These magnificent bedding plants have grown in popularity. Their size, foliage, brilliant bloom and stately appearance are making them favorites everywhere. The named varieties we offer afford a selection of some of the most distinctive varieties in color and size. The unnamed colors allow the purchase in quantity at a moderate price where wanted for growing in masses or beds of large size.

Madam Crozy. This grand sort has flowers of deepest vermillion red, with a distinct gold border; are almost constantly in bloom, and have large individual flowers. Height, four feet. Dozen, \$1.00..... 10

New Yellow Canna Burbank. A California seedling of great merit; giant orchid-like, canary yellow, double the size of Madam Crozy. A splendid bedding plant with luxuriant broad leaves. Dozen, \$1.00.. 10

Flamingo. A superb variety. Flowers very large and of fine, even rounded form. Color, deep, glowing crimson, exceedingly bright and attractive. Plant vigorous, with massive dark green foliage. Sure to become a most popular bedder, and one of the best for indoor blooming in winter. Three and one-half feet. Dozen, \$1.00..... 10

Duke of Marlborough. Three feet. The darkest Canna known, a beautiful crimson maroon. This is a sturdy, erect grower, fine metallic green foliage. No matter how many varieties you may have, you need this one to make your collection complete, for it is entirely distinct from all others..... 15

Red Shades Mixed. Dozen, 75c..... 8

Yellow Shades Mixed. Dozen, 75c..... 8

Bronze Shades Mixed. Dozen, 75c..... 8

SUMMER FLOWERING BULBS—Continued**CLEMATIS**

"Queen of the climbers" is an appropriate term. There is nothing to compare with it for covering porches, trellises, etc. They require a sunny location. Their growth is so rapid they will reach a height of fifteen feet during the season. Dig the ground deep, make it rich, and water whenever needed. We offer fine large plants in good condition to grow.

Postpaid
Each

Madam Edward Andre. This new variety of a brilliant crimson, a color in Clematis heretofore unknown.

It is a rapid grower, hardy and very prolific in bloom..... 50

Paniculata. A fine, hardy variety, having small sweet scented flowers borne in immense numbers. One specimen of which we know furnished a bushel basket full of bloom at one time and yet they were hardly missed from the vine. The flowers appear in September. One of the best Clematis to use as a screen as it grows up very rapidly and has glossy green leaves. Extra strong plants, 30c..... 25

Jackmanii. Large, rich, deep purple flowers. A very popular sort everywhere. Very hardy, but does best if given some protection. Strong plants that will bloom some this season. Extra strong plants, 75c..... 50

Henryii. The leading white variety. Strong grower, having flowers of large size and creamy white. Large plants. Extra strong plants, 75c..... 50

CINNAMON VINE

This beautiful climber is perfectly hardy, the stem dying down every autumn, but growing up again so rapidly in the spring as to completely cover any trellis or arbor in the season. It is as easily cultivated as the Madeira Vine, has no insect enemies, and is not affected by drouth; and, with its beautiful, heart-shaped leaves, bright green peculiar foliage, and clusters of delicate white flowers, it is one of the most desirable climbers in cultivation. Strong roots. Four for 25c; two for 15c..... 8

CALADIUM—Elephant's Ear

A beautiful, large, showy foliage plant, immense leaves, frequently four feet by two and one-half feet. Plant often attains a height of five feet, the immense leaves producing a tropical effect. Better results are obtained by starting the bulbs for a month in pots. Transplant to the open ground when the weather has become warm. Have the soil very rich and supply abundant moisture.

First Size. Bulbs one and one-half to two inches in diameter. Dozen, \$1.00..... 10

Larger Sized. Two and three inches in diameter. Dozen, \$2.00 20

Mammoth Bulb. Produce enormous stalks and leaves 50

DAHLIAS. (See cut next page.)

The Dahlia has always been a favorite for autumnal flowering. The flowers are large, symmetrical and perfect. The color so brilliant and varied that they will always be popular. They should be set out three feet apart after all danger of frost is over. Support the plants by tying to stakes.

Each

Grand Duke Alexis. Largest variety known, sometimes six inches in diameter, of entirely new form, each petal being twisted and curved, funnel-shaped, with astonishing regularity. The color of the flower is pure white, shading to most delicate, charming shell pink..... 20

Maid of Kent (Grand Mogul). Intense scarlet, variegated with pure white, frequently a solid scarlet. A pure Cactus Dahlia of large size. Extra fine. Height four feet..... 15

15

Kaiser Wilhelm. One of the grandest sorts in cultivation; of immense size and perfect form. Deep yellow tipped and shaded with cherry red. Height about three feet..... 15

15

John Elitch. A noble flower. By good judges it is pronounced the best red Dahlia to date. A broad leaved Cactus with long stems. Color, a dazzling red with no shade or variation. Very large and double to the center. Height about five feet..... 15

15

Prince of India. Very large, often six inches in diameter; very prolific. Flowers of perfect form, remaining full in the center even after outer petals have faded. Color, a beautiful, rich, rosy crimson. Height, four feet

15

GLADIOLUS. (See cut next page.)

The Gladiolus is one of the most showy and attractive of the summer flowering bulbs. Its varieties are numerous, hardy and easy of culture. They thrive in almost all soils. Plant where they will get plenty of sunlight; set the bulbs six to eight inches apart, large ones four inches deep, small ones two inches deep; make an early planting, as soon as the ground gets warm and dry, and additional plantings every week until the middle of June for a succession. Its flowers are borne in tall dense spikes, and in every shade of delicate, rich and brilliant coloring. For cut flowers in vases, for house and table decorations, no flower is more beautiful or lasting. The bulbs we offer are of the finest quality, and no better mixtures can be had where fine colors and distinct markings are desired.

Red, of Various Shades. Dozen, 25c..... 3

3

Striped and Variegated. Dozen, 45c..... 4

4

White and Light. Dozen, 50c..... 5

5

Yellow Shades. Dozen, 50c

5

Pink Shades. Dozen, 40c..... 4

4

SUMMER FLOWERING BULBS—Continued



Tuberose



GRAND DUKE ALEXIS.



Gladiolus

Each

Extra Fine Mixed. Dozen, 25c.....	3
Lemoine's Hybrid Mixed. The Lemoine's Seeding Gladiolus is sometimes called Butterfly Gladiolus on account of resemblance to a butterfly with beautiful spots on the lower petals. They are indescribably beautiful. Dozen, 50c.....	5

HYDRANGEA—*Paniculata Grandiflora*

These noble summer and autumn flowering shrubs are absolutely hardy; grow in any soil, and bloom the same year they are set out; they flower abundantly, bearing immense panicles of bloom, white at first and turning to rose in autumn. An annual shortening of the branches tends to increase the size of the flowers. Large plants by express, 25c to 50c.

HARDY LILIES

Lilies thrive best in a dry, rich soil. They should be planted deep as they form two sets of roots, one below, the other above the bulb. All Lilies listed here are hardy out doors. It is well, however, to protect them with a covering of litter of some kind.

Auratum (Gold Banded). Extremely fragrant and very beautiful. Flowers white dotted with crimson with a gold band running through the center of each..... 15

Longiflorum (Easter Lily). A favorite sort for the garden..... 15

Tigrinum (Single Tiger Lily). Flowers orange red spotted with black..... 15

Tenuifolium. Of dwarf habit. Flowers bright red, drooping..... 15

MADERIA VINE

The old favorite "Climbing Mignonette," thick glossy leaves and long feathery, very fragrant white flowers. Pint, 25c; one-half pint, 15c..... 5

RUDBEEKIA—Golden Glow

This is decidedly one of the brightest and most showy among the hardy plants and of the easiest culture possible. The plant is compact, growing four to five feet high, producing numerous stems which are laden with double golden yellow flowers, in size and general appearance resembling a Cactus Dahlia. Excellent for cut flowers, lasting well when cut. Should find a place in every garden. Dozen, \$1.00

10

TUBEROSE

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. The flowers are waxy white and the sweetest scented flower that grows. The growing plant is fond of light and heat, and must have full sunlight when bedded, and plenty of water after it begins to grow freely, but not too much water when first started, and should not be planted outside before May 1st. The bulbs may be planted at intervals of a week or so to give a succession of bloom.

Excelsior Dwarf Pearl. Flowers large, very double. Stem two to three feet tall. The following sizes:

3

Small Sized Bulbs. Large enough to bloom. Dozen, 25c.....

5

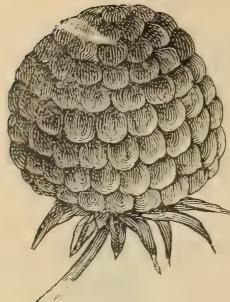
Medium Sized Bulbs. Good ones. Dozen, 40c.....

5

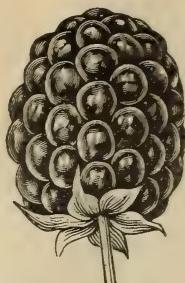
Mammoth Sized Bulbs. Extra fine. Dozen, 60c.....

7

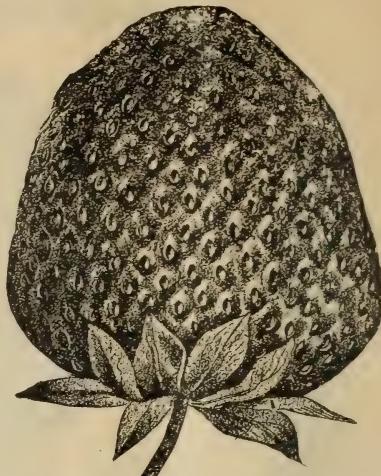
FRUIT PLANTS



Gregg



Snyder



Crescent

No charge for packing. No substituting without consent. Twenty-five at dozen, fifty at hundred rate. Our prices by dozen and hundred include postage.

Varieties marked **P** are pistillate, that is have imperfect flowers, and must have a variety marked **S** or staminate planted alongside every second row. The pistillate are the more productive.

STRAWBERRIES

Crescent, P. Has earned a place at the head of the list. This is a very prolific berry bearing profusely even under neglect. A great cropper; early. Fertilize by planting Bederwood alongside each or every second row.....
 Bederwood, S. Commences ripening early and lasts a long time. Bears bright red berries on a stiff, upright stem, which keeps them free from soiling.....
 Warfield, P. This is one of the free growing plant makers. Berries medium size, roundly conical, rich dark red color all the way through, very firm and a good shipper. Fertilize with Bederwood or Splendid Splendid, P. This berry is well named. It is very productive, of uniform medium size berries, berries that are firm and show up well in the package. It is an excellent shipper.....
 Gandy, S. This is the standard late berry of America; large, firm, uniform and very attractive. Will not do its best at fruiting time on light, sandy soil. Black swamp or medium stiff soil seems to suit it best

	Per Doz.	Per 100
25	80	
25	80	
25	80	
25	80	
30	1.00	

RASPBERRIES

Dozen are postpaid; larger amounts at purchaser's expense.

Older. Originated in Iowa years ago and has stood all our test winters. The hardiest and most productive of any. Ripens about three days earlier than Tyler or Palmer and about six days earlier than Gregg, and lasts the longest of any. Decidedly the richest and best berry when canned. Try it, you will not be disappointed.....
 Gregg. Forms a succession with the Older. Is a firm berry and carries well to market. Heavy yielder. A general favorite for home or market.....
 Cuthbert. The standard red raspberry. Does well on any soil, but like all red raspberries succeeds best on clay or timber soils.....

50	1.25	
50	1.25	
50	1.25	

BLACKBERRIES

Sent at buyer's expense.

Snyder. Hardy. Good bearer. The standard variety for everyone..... 20 1.25

VEGETABLE PLANTS, ROOTS, ETC.

Plants are sent by express, not by mail, and charges are to be paid by purchaser. No order accepted for less than \$1.00 worth of plants. We keep the following kinds on hand, and can ship fresh pulled plants on short notice. Prices subject to change, owing to damage by frosts, etc.

	Per 100	1000
Asparagus Roots. (Ready when ground thaws.) See Asparagus seed.		
Cabbage, Early. (Ready about April 10th.) Early Wakefield, Early Summer, etc.....	50	3.50
Premium Flat Dutch, Drumhead, etc., for late, about June 1st.....	4'	2.00
Cauliflower. (Ready about May 1st.) Early Snowball.....	1.00	7.00
Celery. (Ready about May 1st.) White Plume, Golden Heart, etc	60	4.00
After June 20th.....	50	3.00
Pepper. (Ready about May 15th.) Ruby King, Bull Nose, Sweet Mountain, Cayenne.....	1.00	
Horseradish Sets. (Ready when ground thaws.)	75	6.00
Egg Plant. (Ready about May 15th.) New York Improved.....	1.00	
Rhubarb Roots. (Ready when ground thaws.) See Rhubarb seed.		
Tomatoes. (Ready about May 1st.) Dwarf Champion, Livingston's Beauty, Perfection, Stone, etc.	75	5.00
Sweet Potatoes. (Ready about May 1st.) Yellow Jersey, Yellow Nansemond.....	25	2.00

Write for special prices on plants in quantity, as we sometimes have a surplus on which we are glad to name w prices; besides, we always make prices according to quantity wanted.

GRASS SEEDS

Owing to the important market changes likely to occur between this and the season of active sale we attach no prices except where noted, but would respectfully ask you to write us, stating quantity and quality desired. Prices and samples will be cheerfully given.

CLOVER. 10 to 15 lbs. per acre.

Common Red or Medium. Iowa grown seed stands at the head of the list for quality and freedom from noxious weed seeds or parasites. Our location enables us to supply this high grade of clover seed if obtainable, but Iowa grown seed is very scarce this year. 1 lb.

Mammoth Sapling or English. Recommended to form one-third of the clover seed used when sown for pasture. Being later it forms a succession to the Common Red, prolonging the pasture season. If sown for hay sow with timothy and the timothy will support the excessive growth and they are fit to cut for hay at the same time. Use all Mammoth and no Common Red in this combination. Mammoth is the variety to sow when wishing to plow it all under for fertilizer.

Alsike (Swedish). Good to sow in sloughs and anywhere that excess of moisture causes the Common Red to winter kill. Being fibrous rooted, not tap rooted, it is not affected by frost. Will grow anywhere that timothy does. Esteemed highly for bee pasture. Sow at rate of six pounds to an acre. Postpaid..... 30

White Dutch. A standard part of every permanent pasture. It "comes in" slowly but is "sown in" at a profit at the rate of five pounds per acre. It furnishes bees a sure source of supply. Postpaid..... 35

Alfalfa. It requires a porous soil; have a supply of water or permanent moisture at a depth of ten to fifteen feet. No layer of hard clay should be between the surface and a supply of moisture. Should be seeded in spring, after freezing weather has passed, at the rate of twenty pounds per acre. Use no nurse crop. Keep everything mowed off at height of four to six inches until September. The farmer who has soil adapted to its growth is neglecting an opportunity in not seeding to this great hay and pasture crop. Postpaid

30

TIMOTHY. $\frac{1}{4}$ bu. per acre.

Well known to every farmer. This seed we aim to supply at lowest rates consistent with reliable quality of recleaned seed.

MISCELLANEOUS GRASSES.

Red Top. Is especially adapted to wet soils and is the first of the tame grasses to grow upon land being reclaimed from swamp conditions. Also good in lawn mixtures in some situations. Postpaid..... 25

Orchard Grass. Grows to advantage in shaded situations. Postpaid

30

Hungarian Brome (Bromus Inermis). Has long been cultivated in the dry plains of southern Europe, and has proved best adapted to the subarid regions of our western states. Will stand long drouths and produce heavy crops in dry sections where other grasses would perish. Sow about thirty pounds to the acre. Postpaid

35

Mixed Lawn Seed. We have had years of experience in selling grass seeds adapted to lawn making. We have adopted a mixture which suits the majority of lawns; the varying conditions of sun and shade due to buildings and trees make a variety of grasses necessary. This mixture has given general satisfaction. However, for parties who can call on us and describe the tract desired to be seeded we can prepare a special mixture which will be of particular fitness. Use one pound of the regular formula to 500 square feet. Postpaid.....

35

LAWN MAKING.

We are frequently asked when and how to sow. We answer in spring as soon as ground can be worked, or early fall if prepared to keep sprinkled. At either season rake into the soil and then cover with one-half inch of well-rotted manure. Keep constantly moist by sprinkling, if rains do not, until well started. This mulct soon disappears and is very beneficial.

LAWN FERTILIZERS.

Owing to poor soil or repeated cutting many lawns become scraggy and the desired grasses thin. In such cases we recommend the use of commercial fertilizers which are found on page 38.

FIELD SEEDS

Write and ask for prices where not given. (We quote lowest prices.)

WHEAT. About $1\frac{1}{2}$ bu. per acre.

Early Java. We take pleasure in introducing to our customers a new variety of Wheat which for earliness and fine quality cannot be excelled. It is at least ten days earlier than the Velvet Chaff Blue Stem. For this fact it escapes the extreme hot weather which is so injurious to small grain. Another good quality is that it can be sown with Fall Wheat where the stand is poor and will ripen in time to be harvested with it. It is bearded and supported by good stiff straw; yield is about 35 bushels per acre. We offer seed grown by ourselves which we know to be genuine, and recommend it to anyone interested in wheat raising, as we are sure it will give satisfaction. Price, \$1.35 per bushel, bags free, F. O. B. Des Moines. Write for price on large quantities.

Velvet Chaff Blue Stem. A distinct variety, having white, velvet-like chaff; heads beardless. The stem, just below the head, when green is a beautiful blue bloom, which disappears as the wheat ripens, both wheat and straw assuming a bright golden tint. The kernel is of the hard variety, similar to the Scotch Fife, but is far more productive and one of the best spring wheats for milling.

Fall Wheat. Any one interested in Winter Wheat raising should write for our fall catalogue issued about September 1st.

OATS. 2 to 3 bu. per acre.

Early Champion. This oats maintains the lead for earliness, quality of grain and straw. It is free from rust and a good yielder. If your plans require you to sow grass seed with oats use the Champion and try sowing less than two bushels per acre: It is usually ready to cut in the latitude of Des Moines by July 4th, ten days before other varieties, thus making the earliest feed for summer. Our stock is from same growers whose seed we have sold for years to the entire satisfaction of our customers.

Lincoln. This variety holds its record for enormous yielding qualities, combined with a grain of the best quality supported by a stiff straw which has stood up under weather that has caused many other varieties to lodge. This, together with its freedom from rust makes it the most popular oats for main crop.

Silver Mine. This variety is well named, being one of the best large white oats for main crop; very attractive and heavy yielder. It is one of the best we have to offer this season when oats are not as bright as in more favorable seasons.

BARLEY. 2 to $2\frac{1}{2}$ bu.

Success. A beardless variety. The raising of barley farther south than formerly is on the increase. It is growing in favor as a crop to sow down to grass with and to feed stock.

Manshury. The well-known six rowed, bearded barley. Very productive.

RYE. 1 to 2 bu.

Fall Rye. We have seed of crop of 1902 to offer. Nothing better to sow for early spring pasture, as it will answer all the requirements except a grain crop. Price, per bushel, 90c, bags free.

BUCKWHEAT. $\frac{3}{4}$ to 1 bu.

Sow from three pecks to one bushel per acre from middle of June to middle of July.

Japanese. This sort has proven much earlier and more productive than any other variety, often yielding fifty bushels to an acre. The grains are very large.

Silver Hull. Grain is a light gray color, rounder than the common variety, has a much thinner husk, matures earlier, and yields a half more to the acre.

Common. The same as Japanese in color but not so large.

FIELD PEAS.

They are growing in favor as their use becomes known. Sow very early in spring, one to one and a half bushels per acre. Plow under three to four inches deep, taking a narrow furrow, then sow and harrow in one and a half bushels of early oats. The growth can be pastured off when a foot high by cows and it will come again, or hogs can be turned in when oats are in head and peas are formed.

White Field. The smaller and earlier variety.

Blue Field. Tall, late growing. A succession to the white.

COW PEAS.

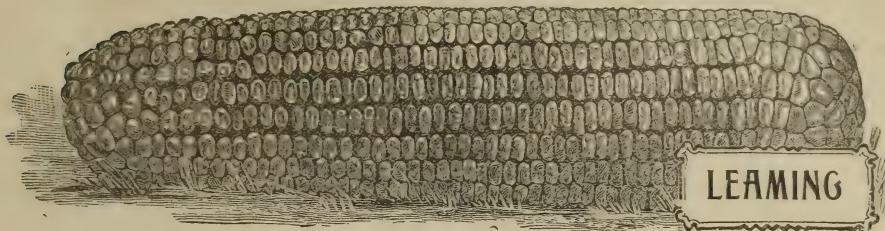
Cow Beans would be the more appropriate name. They cannot be sown until good corn growing weather as they require a warm soil to germinate. Their value is as a "catch" crop, affording a pasture when sown after early oats or barley, fertilizing the soil like clover. Ask us about them if interested.

FIELD CORN

1 bu. for 7 to 8 acres.

Germination tested. We ship in ear or shelled. Send for circular of seed corn points and prices.

Price of any variety shelled or on ear, \$1.75 per bushel.



The supply of some varieties is limited. Orders will be filled or money promptly returned. We have no one variety to recommend for all soils, climates or uses. We have sold seed corn too many years to not know how important for the grower is a wise selection. We have given intelligent and reliable information in the past and stake our reputation on doing so in the future. We sell either shelled or on the ear to suit our customers.

The buying of seed corn in the ear is now considered to be the best way, as the purchaser can see what he is receiving, but we highly recommend our shelled corn to be just the same grade and quality as the ear. We leave it to you to decide whichever one you prefer.

Pride of the North. This is the best early corn, can be raised farther north than any other variety. The average ear is from 6 to 8 inches long; yellow in color and moderately dented; has a deep grain and yields well, but not large enough to be raised extensively where larger corn can be grown. It is valuable for early feed and replanting.

Longfellow Dent. This is not the eight-rowed flint or "Yankee" corn, but a happy medium between it and the dent varieties. It is a little later than Pride of the North, having a slim ear from 9 to 12 inches in length and 12 to 14 rows. It is a great yielder and very easy to husk. For a corn of its size it comes very early. It is slightly dented and of a light yellow color, some ears showing the flint more than others. To those who have never raised this variety we recommend them to try at least a few acres of it. Can be grown in northern Iowa.

Gold Mine. This well known variety hardly needs anything said about it, but for those who have never grown it we recommend that they try it as it has a well-deserved place among the best corn. The ears are medium sized with 14 to 16 rows very deep grain, small cob and a beautiful yellow on ear or when shelled. It is quite early and one of the best feeding corns but is not the most profitable for the market it being so easily shelled that it wastes, besides you give too much corn at 70 lbs., as the amount of cobs is much less than in some larger varieties. The stock we offer is genuine.

Leaming. We have corn grown here the stock seed of which we obtained from the originator last year. The ears are from 7 to 10 inches long, rows 16 to 18 in number. It is pleasant to husk, the grains being smooth, having yellow caps with a slightly reddish yellow grain. There is therefore considerable difference in color of grain on ear and shelled. The grain is best described by saying it is brick shaped, carrying its full square size to the cob. The ears taper considerably from butt to tip, often having a slight shoulder which is a characteristic of this variety. It is a good yielder and very heavy weigher. If you want a corn to crib, stored for years, then shell and grade high, plant the Leaming. Even in this season of wet weather we have no variety among the main crop corns which dried out any better than the Leaming.

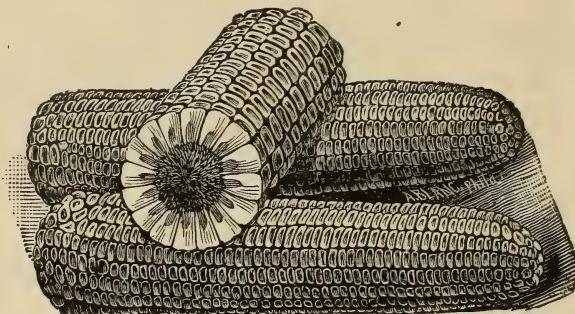
FIELD CORN—*Continued*

Legal Tender. This is a well known large main crop corn, grown largely in the central corn belt. It requires a full season and will not stand planting too far north. Ears are from 8 to 11 inches long, with 16 to 20 rows of deep, pointed grain, an attractive yellow whether on ear or shelled. When wanting to raise a big crop of corn you would make no mistake in planting Legal Tender.

Reed's Yellow Dent. In this we have a good sized main crop variety. It is a little later than the Leaming. Ears are from 8 to 11 inches long with 18 to 22 rows of fine yellow square grains with a dented smooth top; a good yielder and easy to husk. This corn is becoming better known every year, and still holds its good reputation. We do not recommend planting it too far north but for the central corn belt it is a very profitable corn.

Champion White Pearl. This is the largest white corn we have. The ears are from 8 to 11 inches long, with 14 to 16 rows of dented smooth top grain, making it easy to handle. It requires a full season and is best adapted to the central or southern corn belt. For milling it is one of the best.

Silver Mine. This name is becoming well known among the white corn raisers. In length it is from 7 to 10 inches, with 14 to 18 rows of clear white deep grain, and rather a small cob. The grains are dented and quite rough. It is a big yielder and in favorable seasons will mature a crop nearly to the north line of Iowa.



Reward

Reward. The giving of this variety its name is a deserved recognition. It has been sold for seed for years, having a great local reputation. It is the result of many years careful selection by the Gooch family, who are among Polk County's oldest pioneers. During the last few years it has been carefully selected for its improvement, the demand for better seed corn aiding in its improvement and recognition. We know of no Yellow Dent variety in which size and earliness are so well combined, the length of ears being from 9 to 12 inches and most of them having from 18 to 22 rows. Color an attractive yellow on ear or shelled. It is considerably dented but not enough to render husking unpleasant. From what we know of it in the past we can recommend its planting as a main crop anywhere in the corn belt from the northern line of Illinois southward. For raising a big crop of corn you will make no mistake in selecting the Reward. It will mature in ordinary season.

Paymaster. This new variety is but little known outside of this county (Polk). It represents twenty years of careful seed selection by one of our most respected and successful German farmers, Mr. Jno. H. Seibert. A number of our successful farmer friends who have grown it repeatedly urged us to introduce it for trial by other corn growers. Its most striking characteristic is the length of the ears, ranging from 10 to 14 inches, rows number from 14 to 18. The color is a pale yellow with an occasional ear tinged with orange yellow. The corn grower in the central corn belt who wishes a corn capable of yielding a big crop especially adapted to hog and cattle feeding should give Paymaster a trial.

SORGHUM FOR FODDER

The successful growing of sorghum for fodder has been the greatest addition to farm crops for many years. The quantity and quality of succulent, palatable and nutritious feed produced by an acre of sorghum has proven a revelation to many a stock owner in Iowa and adjoining states. The raising of cane started in Des Moines a few years ago and since then it has steadily increased until it is without doubt the best feed that can be produced that makes the yield per acre that it does. It will yield from 2 to 6 tons per acre and does not have to be harvested until cool weather in the fall.

Below we give directions for growing and handling this crop which has been so successfully raised for several years, allowing various changes to suit the circumstances of different cases. If you have never grown Sorghum you should try it this year and if you have grown it we would be pleased to make you prices.

CULTURAL DIRECTIONS

Do not select rich bottoms or highly manured land to secure best results. On low grounds severe frosts will require early cutting, and very rich and manured land while producing a heavy crop is deficient in sugar, the most valuable constituent. Plow the ground as for corn. Harrow till fine to remove the clods and conserve moisture and start the weeds to grow. When the weeds have fairly started disk or cultivate and harrow to kill the weeds. Repeat if necessary until time to sow. The early growth of sorghum is small and slow and for best results requires the soil to be fine and free from weeds. In the latitude of Des Moines sow from June 10th to 20th. With moisture to germinate it may be sown till July 15th. Sow broadcast one hundred pounds per acre. If drilled use eighty pounds per acre. Sown broadcast cover one inch deep by disking or cultivating lightly. Harrow and finish with planker or roller if weather is dry.

It is neither palatable or nutritious until the sugar is developed, which is indicated by the seed becoming black. It may be fed then as needed. Cut for winter use when in danger of severe frost. This period varies here from October 1st to 25th. Cut with a mower, rake into winrows and put in very large cock, 600 to 800 pounds, as soon as possible. Don't worry about it spoiling. Do not try to cure it. Adopt the opposite course. Preserve its succulence and you will not need a silo. A very good way when cool nights have come and hard frost not far away is to cut and cock what you can each day. A day or two's work will give you an idea how much help you need to complete the job in season. It may be fed from the cock as wanted, or six weeks later put in narrow ricks about eight feet wide. If weather is mild it may heat in wide ricks or if stored in mow in large quantity. All kinds of stock will eat it, hogs included, and thrive amazingly. Nothing better for the dairyman's milk cows. When feeding sorghum decrease the corn ration.

Fall Use. Sow as soon as corn is growing well. Seed will not germinate in cold ground. Begin to feed when seed turns black.

Winter Pasture. Letting stand where grown and pastured off in fall and winter can be done. It has proven a success with those to whom we have suggested it.

Seed is not as high-priced this season but it will pay to be growing sorghum. We do not know of a single case where grown and harvested as we have suggested that has not been successful beyond the grower's expectations. We have sold sorghum seed for years to satisfied customers. Write us for prices.

DWARF ESSEX RAPE

Our stock of this is the genuine English-grown Dwarf Essex, the sort that is grown for pasture, producing a large amount of succulent leaves and stems. Some Rape is grown for the purpose of producing seed and is much inferior for pasture use. We have sold Rape and are observers of how to grow it for years. We issue directions of how to grow and use it which will be sent on request. The small cost of seeding and the large amount of pasture which is the very best for hogs, sheep and cattle, are the reasons why you should grow Rape. Five pounds sows an acre. 1 lb., 20c, postpaid; 5 lbs., 40c, by express not prepaid. Write for prices on large quantities.

KAFFIR CORN

White Kaffir Corn. Grows from 4 to 5 feet high, making a straight, upright growth with numerous wide leaves. The stalks keep green and are brittle and juicy, making excellent fodder either green or dried, which is highly relished by cattle, horses and mules. The seed being white is preferred for making meal.

Red Kaffir Corn. This grows taller than the white. The stalks are more slender and juicy and very leafy. The heads are long, slender, and grow compact and erect, measuring from 1 to 2 feet. The seed is red, smaller than the white, and rather hard and brittle. This variety is one of the best drouth resisters among all the non-saccharine sorghums.

CHOICE SEED POTATOES

Owing to market changes which are likely to occur between now and planting time we make no prices in the catalogue but will send quotations on request.

Northern grown seed has proven that for renewing the grower's seed stock and producing extra early market crops to be well worth its additional cost. Our list embraces the standard sorts which can be depended on to supply the grower's table and the market's demands throughout the season. If variety listed is new to you, you should give it a trial. This is the only way to discover the varieties adapted to your soil and season.

Early Ohio. Still the standard for earliness and quality combined. The northern grown seed has unusual vigor and is especially valuable for the market gardener who must have earliness. Good, well selected, home grown stock can usually be bought cheaper and fill the requirements of the planter.

Early Rose. The old-time favorite is regaining lost ground, especially when northern grown seed is planted. Such seed gave some of the best results of any in this season of potato crop failure. Not so early as Ohio, but a heavy yielder, it furnishes a full supply of finest quality for late summer.

Seneca Beauty. The tubers are large to very large; very smooth, with few eyes close to surface; of beautiful pink color; uniform in size and shape, scarcely any small ones. Vine rank and healthy. Cooks dry, and is fine-grained. Is of splendid quality. A good keeper and heavy cropper. On account of its distinct appearance in shape and color it can be kept pure and easily selected.

Rural New Yorker No. 2. This potato is of large size and unusually smooth; has few and shallow eyes; oblong, is inclined to round, slightly flattened; the skin white, also the flesh; of superior quality. Matures medium late. The yield is very large and uniform.

The Bonanza. A splendid medium late sort, especially desirable for main crop. Large, slightly oblong and flattened; skin smooth, rose color. Very distinct—your customers get to know them. Eyes shallow, flesh white, fine grained and dry; good flavor. Very productive.

SEED SWEET POTATOES

One bushel, under favorable circumstances, will produce 2,500 plants.

Ask for prices March 1st. Close quotations made.

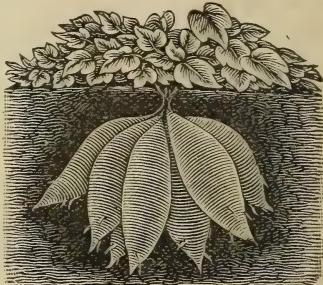
We get Sweet Potatoes from growers who make a business of storing and packing for seed purposes. They are properly handled and will produce large, vigorous plants abundantly. We begin shipping about April 10th. As they sometimes begin rotting soon after leaving storage house, customers must be prepared to put them into the beds as soon as they arrive.

Yellow Jersey. This is the main crop variety, growing a good short potato of fine yellow color and excellent quality. Very popular for the market.

Yellow Nansemond. Very much the same as the Yellow Jersey, but not so short.

Red Jersey. The best red potato on the market, being of the same growth as the Jersey, but of a red color.

New Vineless. Almost vineless, having a short, bumpy, upright top. A rapid grower. Stands drouth; no vines to run. The best early sweet potato.



New Vineless Sweet Potatoes

BROOM CORN

Improved Evergreen. The favorite sort. The brush is fine and of good length. Yields well and does not turn red in the field before cutting, being a green variety of brush. Pk., 60c; bu. \$2.00.

POP CORN

Monarch White Rice. An improved strain of the good old Rice variety, having a much larger ear, and will no doubt yield much more per acre. The very best sort to grow for market. Per oz., 5c; $\frac{1}{2}$ lb., 10c; lb., 25c; not prepaid, 10 lbs., 75; 25 lbs., \$1.50.

Queen's Golden. A beautiful golden yellow sort, having large grains and popping to immense size, but requires a very hot fire to produce it to perfection. Oz., 5c; $\frac{1}{2}$ lb., 10c; lb., 25c.

INSECTICIDES



SLUG SHOT

Non-poisonous; no danger need be apprehended by the person applying it, nor will it injure chickens or animals should they eat it, unless in large quantities. It does not render injurious the vegetables and fruits on which it is applied, and yet it is probably the best insect destroyer ever offered for the destruction of potato bugs and all worms and insects. It comes ready to be applied, and is simply dusted lightly on, so that it reaches all parts of the plants. For further information send for Slug Shot circular, sent free.

Prices by mail, postpaid, lb., 25c; not prepaid, 5 lbs., 35c; 10 lbs., 60c; 50 lbs., \$2.50; 100 lbs., \$4.50; barrels, holding 235 lbs., net 4½c per lb.

Dusters for Slug Shot or Other Powders. One-half gallon size, 35c.

SULPHO TOBACCO SOAP

In this preparation we offer to the florist, to the amateur grower, and all who are interested in flower growing either indoor or outdoor, a tobacco preparation which meets the necessity for an easily applied and absolutely effectual insect destroyer. It is dissolved in warm or cold water and sprinkled or sprayed over the plants. Very easily done, very effectual; absolutely safe in use on tenderest plant, and is non-poisonous. It is a very vigorous fertilizer. 2 oz. pkg., 10c; postpaid, 15c. 6 oz. pkg., 20c; postpaid, 25c.

PERSIAN INSECT POWDER

The best known of all insect destroyers, and when fresh is almost sure death to all kinds of insects. Postpaid, oz., 7c; ¼ lb., 20c; lb., 65c.

WHALE OIL SOAP

One of the cheapest and most effective remedies to destroy slugs, bugs, insects, etc., on trees, plants, etc. Dissolve one pound in seven gallons of water and sprinkle on the foliage. Postpaid, lb., 30c; not prepaid, lb., 15c; 8 lbs., \$1.00.

FERTILIZERS

Express or Freight to be paid by purchaser.

The commercial fertilizers should be known to be appreciated by both market and private gardeners. We briefly mention some of them to induce the reader to begin experimenting how to use them. Try them on a part of the plants as they are injurious used injudiciously, yet anyone can well afford a small loss to acquire an intelligent use of them.

Nitrate of Soda. This looks much like common salt and should be kept from domestic animals as it is injurious to them. It produces stem and leaf growth early in the cool spring weather before the plants can avail themselves of other plant food in the soil. Try sowing two pounds to the square rod on your lawn in spring when grass starts. Try sowing two pounds per square rod on onions. Try scattering a tablespoonful around each tomato plant when six inches high in a circle two feet in diameter and see the effect following after a rain. One lb., 10c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00, not prepaid.

Bone Meal. Acts slowly. We suggest you try the lasting effect of applying it to your lawn in early spring at the rate of two pounds per square rod.

BOWKER'S FOOD FOR FLOWERS

Perfectly odorless and clean. Full directions and the care of household plants is given in a little booklet entitled "Window Gardening," free with each package; ½ lb. pkg., 15c; postpaid, 25c; 1 lb. pkg., 25c; postpaid, 40c. (Cut shows large package.)

FRUIT BOXES AND BASKETS

We have a full line in season. Write for prices.

BOXES—The Halleck Square. One quart, strong and durable. Leslie. The long box preferred by some shippers

Pints. Especially adapted for handling red raspberries when shipped.

Crates. To match the square box, long box or pint.

Picking Stands. Holding six of the square boxes.

Tacks. Broad heads. Good lengths.

Magnetic Hammers. Well magnetized.

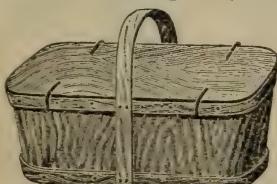
Forms. Used in putting the boxes together.

Wire. Used in box machines.

GRAPE BASKETS

Climax. Eight pound size, board cover and handle.

Market. One-half bushel size, one or two handled. Peck size, two handled, convenient.



GARDEN TOOLS



Broadcast Seeder

Bucket Brass Spray Pump

It is filled out complete with hose, combination vermorial fine and coarse spray and solid stream nozzle. Is made of brass and is not affected by the poisonous arsenites used for spraying. The work is done on the down stroke of plunger and nothing on the up; it is very easy to operate and has great power. Will throw a solid stream 50 feet and is of unusual value for washing windows, buggies, etc. For spraying fruit of all kinds it is arranged so that it discharges a fine jet into bottom of bucket to keep the solution thoroughly mixed and agitated. We can furnish formula for spraying different kinds of fruit and tell when it should be done. The pump is provided with a combination nozzle, and also with a sprinkler for flowers, and will throw spray as fine as mist, or as coarse as required. It can be bolted to the inside of a barrel if wanted by removing the foot rest. Price, bucket size, \$3.75.



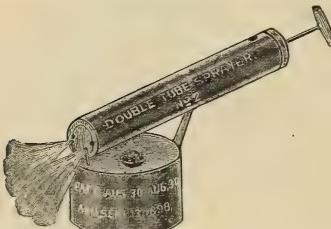
BROADCAST SEEDERS

Little Giant Crank. One of the best hand seeders. Very simple, easy to operate. It is cheap and always ready for use. It works whether windy or not. It has a crank and is operated by a cog wheel gearing. Iron frame; agitator to prevent seed from clogging; hand hold on side; strong, light and easy running. Sows flax and clover 36 feet to the round; wheat, 50 ft; buckwheat, 46; barley, 40; oats, 36; timothy, 27. Price only \$1.75.

Little Giant Fiddlebow. Same as above except it is run by a bow instead of the crank. It is not so easy to operate. Price, \$1.25.

Columbia. This new seeder we offer, feeling that it will prove satisfactory in every way. It is operated by a crank same as the Giant, but it has a cut-off attachment and a cast distributing wheel. It is a first-class machine in every way. Price, \$1.75.

LIGHTNING INSECT EXTERMINATOR



It kills or drives away everything in the way of an insect pest obnoxious to yourself, your animals or your crops. The air chamber is of large capacity so that only one stroke is necessary to cover an entire hill of potatoes; and the reservoir holding two quarts supplies sufficient for 2,000 hills. It is a great saver of liquid insecticides as it throws a spray as fine as mist. Not a drop of it is wasted, as it is so fine that it readily adheres to all parts of the foliage. It is adapted to all crops growing near the ground, also small fruit trees. Price, double tube, galvanized tank, 75c; copper tank, \$1.00; glass tank, 75c. These are also useful

to stock raisers to spray their work horses or milch cows with, to drive away flies, using Flycuro; quart, 50c.

STEEL GARDEN TROWELS

Very useful in loosening the soil or in transplanting of plants. They are made of fine cold rolled steel with malleable iron shanks, firmly riveted. A first-class article of the kind. Six inches in length, 20c, postpaid; Seven in length, 25c, postpaid.

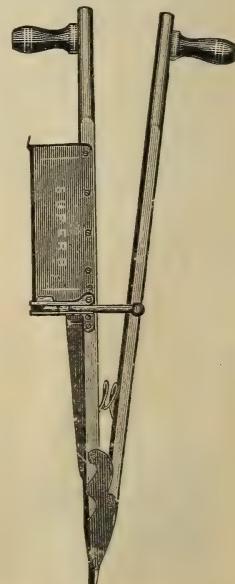


inches in length, 50c, not postpaid.

Angle Trowel. This trowel is one solid piece of steel; shank and blade very strong and will not pull out of the handle. Small, each, 25c; Large, 50c, postpaid.

ROTARY CORN PLANTER

Decidedly the best hand corn planter made, and a very desirable implement for those who have but a small field or need to replant their ground. It puts the corn exactly where you want it and at a proper depth. It is easily worked and a most satisfactory tool in every way. Each, \$1.25.



Rotary Planter

TOOLS AND TRAPS

Scolley's Plant Sprinkler



Indispensable for floral work or window gardening. Very useful for dampening clothes or for all purposes where sprinkling is necessary. They are often used for years constantly and apparently remain as good as when new.

Large Size. Either straight or angle neck. Each 85c; postpaid, 95c.

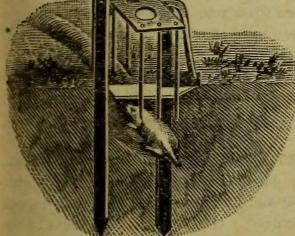
Medium Size. Each, 65c; postpaid, 73c.

Small Size. Each, 45c; postpaid, 51c.

Reddick Mole Trap

No mole can pass under it and live. Easily operated, can be set in a moment. Will last a lifetime with proper care. We have sold this trap for several years, and the satisfaction given has been universal. One man caught three during an afternoon while set near where he was at work, and over 40 during the season, and won a \$5 prize. Directions for operating go with each trap. Price, 75c; sent by express or freight at purchaser's expense.

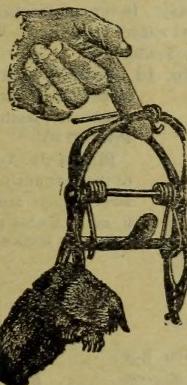
These Traps will do the work



The "Out o' Sight" Mole Trap

One of the best mole traps on the market. Especially valuable for hot beds on account of its convenient height.

Full particulars for setting with each trap. Price, \$1.00; postage, 25c; \$5.00 for half dozen.



NEW PRINCIPLE

When properly set will catch 19 out of 20. The Best Trap Made for POCKET GOPHERS.

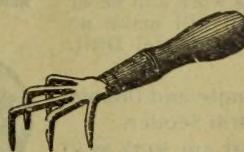
No Danger and Easy to Set. Sure Catch.

Sample trap, sent postpaid for 25 cts.

Full Directions With Each Trap.

Daisy Spraying Pump

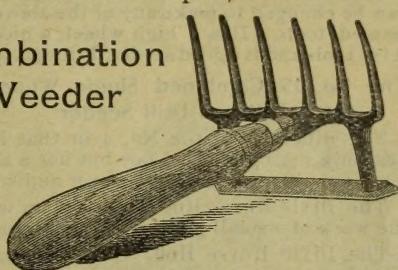
This popular little sprayer is used for spraying insecticides and whitewash in the poultry house, also for spraying fruit trees and plants. Can be changed so as to throw a solid stream of water twenty to thirty feet high and used for washing windows, buggies, etc. Price only \$1.00. Can be sent by express only.



EXCELSIOR WEEDING HOOK

Indispensable to the cultivation of flower or vegetable garden. Price, 15c each; postpaid, 20c.

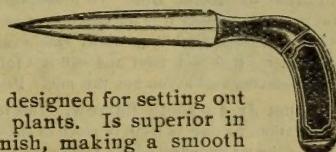
Combination Weeder



Combining both the rake and hoe. It is a perfect weeder. Specially adapted to cutting weeds and grass, shallow cultivation, and stirring of the soil of all garden crops and flower beds. It is neatly and strongly made, the blade of the best spring steel, sharpened on both edges. Price, 30c; postpaid, 40c.

LANG'S HAND WEEDE
HANDIEST TOOL ON EARTH. PREPAID
25c.
BY MAIL

Improved Transplanting Dibble



Especially designed for setting out all kinds of plants. Is superior in design and finish, making a smooth hole into which the soil will not easily fall. Is made entirely of iron, is hollow, thus avoiding unnecessary weight. Very strong and just fits the hand. Each, 35c; postpaid, 50c.

WOOD HANDLE DIBBLE

This Dibble has a smooth steel point with large handle; light, strong, durable.

Small. For setting small seedling plants.

Each, 20c; postpaid, 30c.

Large. For setting all kinds of vegetable and fruit plants. Each, 30c; postpaid, 40c.

IRON AGE TOOLS

The record of the New Model Drill has been entirely satisfactory, and its place as one of the leading drills has become firmly established. It is simple and easy to operate; built strong; large wheel in front makes running easy; a perfect hole for the seed to pass through, being diamond shaped, and can be adjusted to any size. The index is plain, a simple agitator which does the work and never gets out of order. You will make no mistake in buying a New Model Drill. Price, \$7.50.

The No. 4 Combined Single and Double Wheel Hoe and Drill Seeder.

This tool will do most any work as it can be changed to make any of the above named tools. Has a high wheel, a nice set of tools and is a good seeder. Price \$9.50

The No. 15 Combined Single Wheel Hoe Hill and Drill Seeder

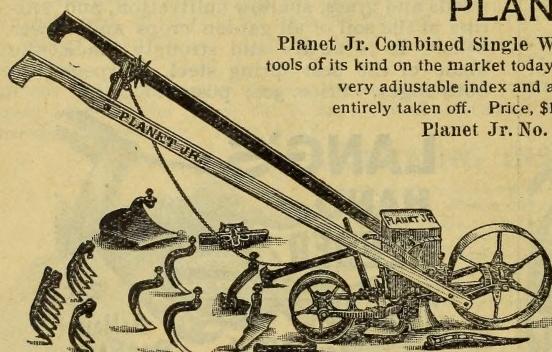
This differs from the No. 4 in that it has only a single wheel hoe but has a hill dropping attachment as well as a drill; is built on much the same plan, a high light wheel and strong frame. Price \$9.50.

The Dixie Horse Hoe. With plain wheel and lever expander. Makes a light tool which will do the work of a small garden and can be adjusted readily by the lever. Price, \$5.50.

The Dixie Horse Hoe. With expander lever only, the other parts being the same as above machine except it is without wheel. Price, \$4.50.

Complete Catalogue of Iron Age Tools sent on request.

PLANET JR. TOOLS



Planet Jr. No. 4 Combined Drill

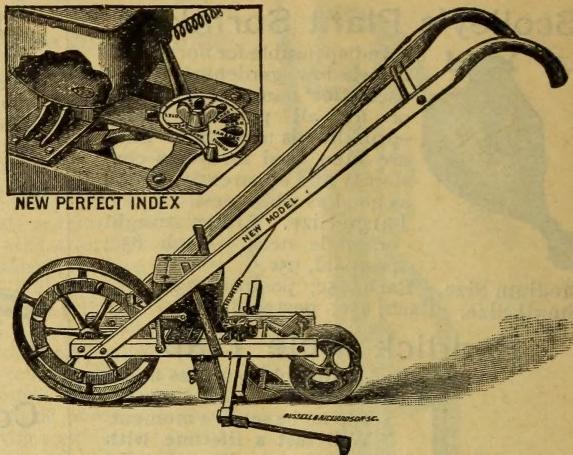
Planet Jr. Horse Hoe. To those who have used this machine it is not necessary to say it is the best one of its kind made. It has five shovels with extra steels for hilling work. Has lever adjuster on wheel and a lever expander. It is well built and will last for years. You will always have a satisfactory tool if you buy this one. Price, \$8.00.

Planet Jr. 12-Tooth Harrow. This tool is made for light or shallow cultivation, having 12 teeth in place of shovels. A lever expander and a lever adjuster on wheel with a pulverizer to be attached to the rear, leaving the ground in fine condition, is very useful especially in strawberry raising. Price, \$8.50.

Complete Catalogue of Planet Jr. Tools sent on request

McGee Garden Cultivator

For hand cultivation no tool has ever been produced that excels the McGee Garden Cultivator either in ease, quickness or thoroughness of work. It has an arch frame and two wheels like a tongueless cultivator, springs between the beams on handles, and arch enables the operator to control easily, accurately and instantly the side movement of the knives or cultivators. The McGee is furnished with a set of weeding knives and a set of cultivators. Price, \$4.25.



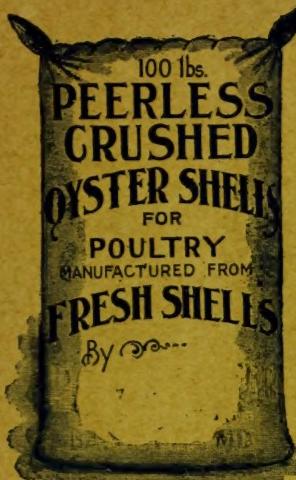
New Model Drill



McGee Cultivator

POULTRY SUPPLIES

Reliable goods. Low Prices. No charge for packing or delivering to railroad.



CRUSHED OYSTER SHELLS

We sell oyster shell not clam shell. Big difference. Experience counts. It pays to feed oyster shells. Why? They supply carbonate of lime.

Nothing that fowls eat supplies so much material for egg shells. They supply just what corn fed fowls need so much, They remedy dropping soft shelled eggs. They increase the thickness of the shell so eggs carry better and keep in good condition longer.

Feed in shallow trough or pan nailed under a shed at height so fowls can help themselves.

Price—Bag (100 lbs.) 75c., 50 lbs., 50c., 10 lbs. 15c.

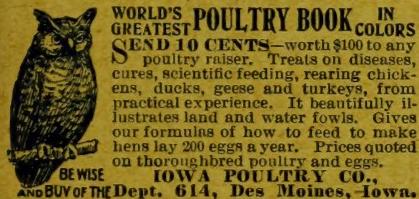
MICA CRYSTAL GRIT

Fowls must have something to aid in grinding their food. It needs to be hard and sharp. Mica Grit is composed of Quartz and Mica. One is hard the other sharp. And the peculiar way they are united causes the edge of the pieces to break off sharp and not wear smooth in grinding the fowl's food. It also contains some iron, which acts as a tonic. Grit is especially needed in winter when fowls are confined and even with a farm range they eat grit greedily, showing they need it. Feed as directed for oyster shell. Price—Bag (100 lbs.), \$1.00; 50 lbs., 60c; 25 lbs., 35c; 10 lbs., 15c.



BONE MEAL AND GRANULATED BONE

In either form it furnishes superphosphate of lime or bone material. Bone material is needed by all growing fowls and especially those of the large breeds. It is an easier way to feed bone than using a bone cutter. You buy no moisture. No bad smell. Feed the meal a handful three times a week in mash to a dozen fowls. Granulated bone is about like cracked corn. Feed small handful three times a week to a dozen fowls, on wide board or shallow trough. Price—100 lbs., \$2.50; 50 lbs., \$1.30; 25 lbs., 75c; 10 lbs., 35c.



BEEF MEAL

Is meat, bone and blood, kiln dried. The appetite of fowls for insects and other animal food tells what they crave. Does it pay in eggs and growth? Try and see. Try how near it comes to green cut bone with much less disagreeable labor. No offensive odor. No work. Always ready. Kiln dried—you buy no water or other waste. Feed handful three times a week to a dozen fowls, in a mash feed. Price, 100 lbs., \$2.50; 50 lbs., \$1.30; 25 lbs., 75c; 10 lbs., 35c.



AKRON DRINKING FOUNTAIN

It keeps the water clean and cool, which means healthy fowls. Prevents small chicks from getting drowned. A child can fill it. Easily cleaned. When from home you know the chickens have water. Price, size $\frac{1}{2}$ gallon, 25c; 1 gallon, 35c; 2 gallons, 50c.

MANN'S BONE CUTTERS. This is the best and most satisfactory bone cutter made for cutting green or fresh bone. We have the 1902 model. Price, No. 5 B, balance wheel and four knives, \$8.50; No. 7 B M, balance wheel and six knives, \$13.00.

HALL'S ROUPE CURE. Used successfully by poultry men. Guaranteed to cure. Two sized boxes. Price, 25c and 50c postpaid.

CONKEY ROUPE CURE. Will positively cure roupe in all its forms. Comes in two sizes. Price, 50c and \$1.00 postpaid.

POULTRY WIRE NETTING. The best made. Thoroughly galvanized to prevent rusting. Two inch mesh in rolls of 150 running feet. Price, $\frac{1}{2}$ c per square foot. Cut rolls at 1c per square foot. Special prices on five and ten roll orders.

Complete poultry supply list sent on request. Above list sent at buyer's expense except where noted. Address all orders to

HAWKEYE SEED CO., DES MOINES, IOWA

1903

Second Annual Catalogue

OF

**RELIABLE
FARM, GARDEN AND FLOWER
SEEDS**

EARLY JAVA WHEAT,
Earliest and Best Spring Wheat.

DWARF ESSEX RAPE,
Quickest Hog Pasture.

EARLY CHAMPION OATS,
Nothing Earlier Grown.

TESTED SEED CORN,
Good varieties on ear or shelled.

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